# CENTRAL STATION

# *Boilers*

## *Typical Installations*

BABCOCK & WILCOX

# BABCOCK & WILCOX
# CENTRAL-STATION BOILERS

## BULLETIN G-40

**Arrangement Drawings of, and Data on, Typical Babcock & Wilcox Boiler Units. Some additional Units sold in the Period 1936 - 1938 are shown in Bulletin G-29.**

**THE BABCOCK & WILCOX COMPANY**

**85 Liberty Street** **New York 6, N. Y.**

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# • BOILER AND FURNACE DEVELOPMENT •
## *UNDERFEED-STOKER FIRED FURNACES*

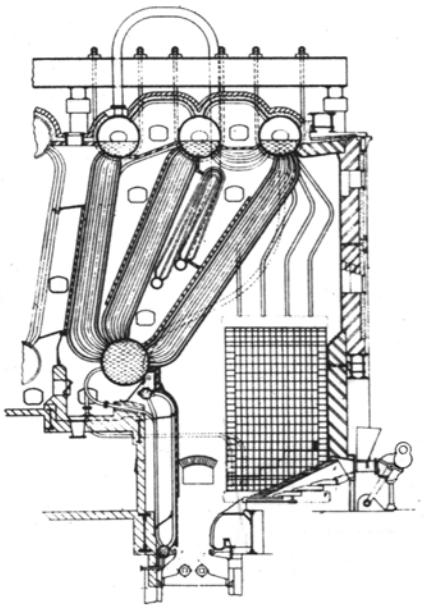


Fig. 1

Richmond Station
Philadelphia Electric Co.
Philadelphia, Pa.

| | |
|---|---|
| Ordered 1924, In Service 1926 | |
| Capacity, lb./hr. | 185,000 |
| Design Pressure, lb./sq.in. | 410 |
| Total Steam Temp., F. | 726 |
| Furnace Width | 27' - 7" |
| Combustion Rate, lb.coal/hr./ sq.ft. grate area | 60 |
| Preheated Air Temp. | 300 F. |

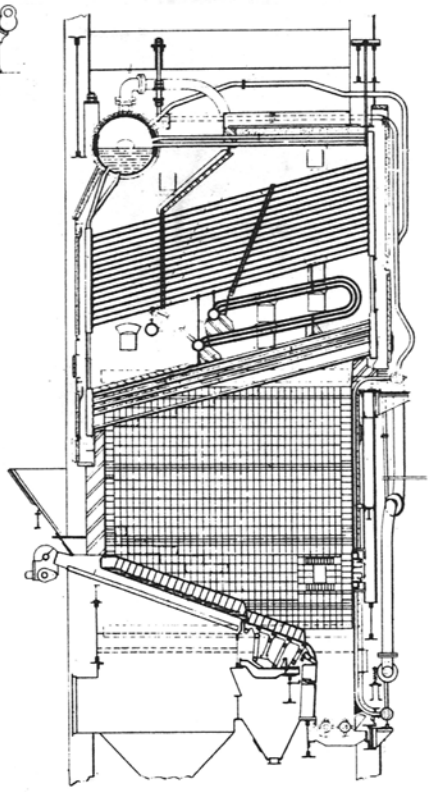


Fig. 2

Hudson Ave. Station
Brooklyn Edison Company
Brooklyn, N. Y.

| | |
|---|---|
| Ordered 1927, In Service 1928 | |
| Capacity, lb./hr. | 293,000 |
| Design Pressure, lb./sq.in. | 465 |
| Total Steam Temp., F. | 725 |
| Furnace Width | 26' - 0" |
| Combustion Rate, lb.coal/hr./ sq.ft. grate area | 58 |

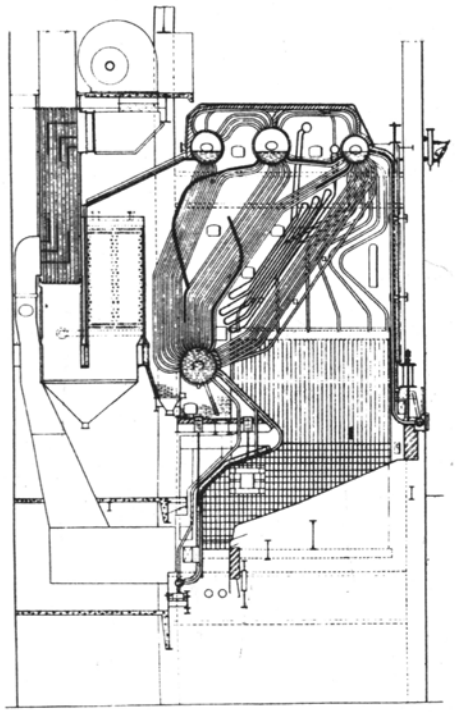


Fig. 3

James Reed Station
Duquesne Light Co.
Pittsburgh, Pa.

| | |
|---|---|
| Ordered 1936, In Service 1938 | |
| Capacity, lb./hr. | 350,000 |
| Design Pressure, lb./sq.in. | 475 |
| Total Steam Temp., F. | 760 |
| Furnace Width | 32' - 6" |
| Combustion Rate, lb.coal/hr./ sq.ft. grate area | 49.7 |
| Preheated Air Temp., F. | 254 |

# • BOILER AND FURNACE DEVELOPMENT •
## *CHAIN-GRATE-STOKER FIRED FURNACES*

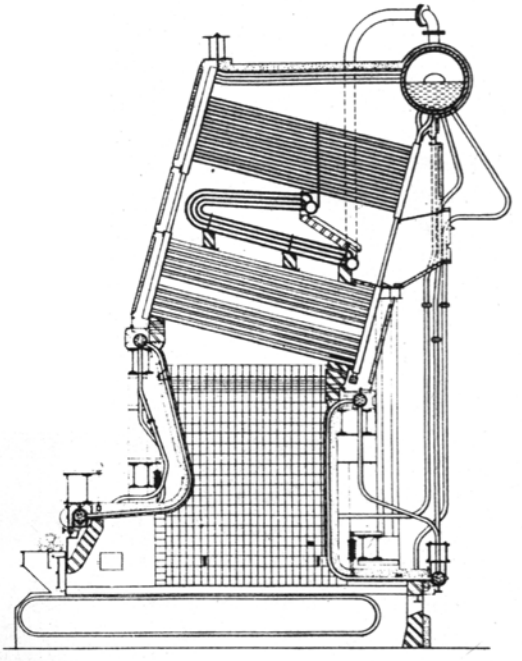


Fig. 4
Crawford Ave. Station
Commonwealth Edison Co.
Chicago, Ill.

| | |
|---|---|
| Ordered 1925, In Service 1926 | |
| Capacity, lb./hr. | 208,000 |
| Design Pressure, lb./sq.in. | 650 |
| Total Steam Temp., F. | 720 |
| Furnace Width | 24' - 0-1/2" |
| Combustion Rate, lb.coal/hr./ sq.ft. grate area | 50 |
| Preheated Air Temp., F. | 350 |

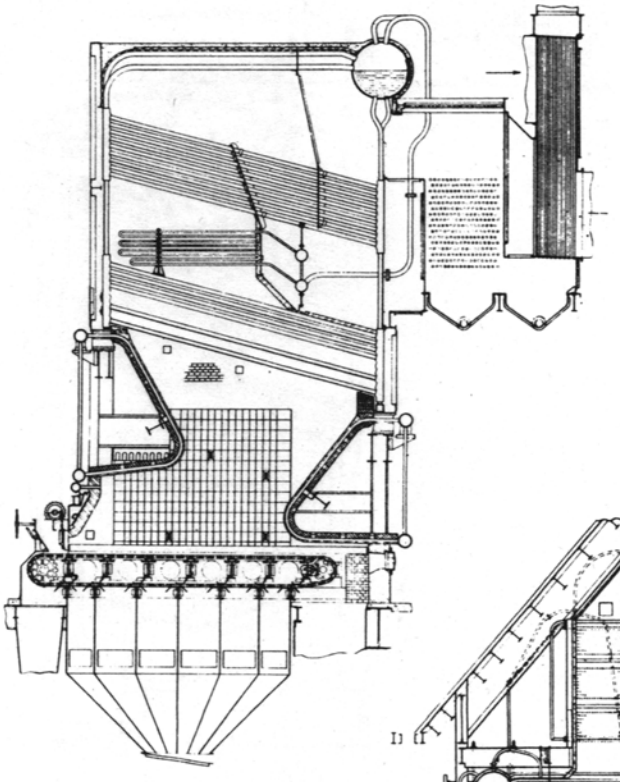


Fig. 5
City of Springfield
Springfield, Ill.

| | |
|---|---|
| Ordered 1929, In Service 1931 | |
| Capacity, lb./hr. | 60,000 |
| Design Pressure, lb./sq.in. | 425 |
| Total Steam Temp., F. | 700 |
| Furnace Width | 12' - 2" |
| Combustion Rate, lb.coal/hr./ sq.ft. grate area | 40 |
| Preheated Air Temp., F. | 250 |

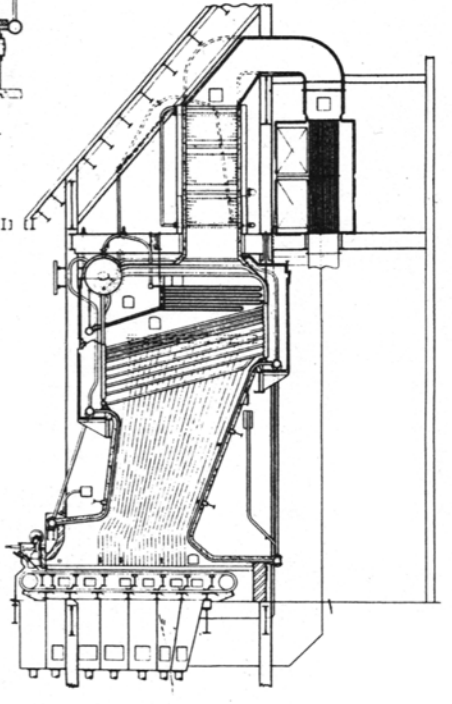


Fig. 6
Dresser Station
Public Service Co. of Indiana
Terre Haute, Indiana

| | |
|---|---|
| Ordered 1937, In Service 1937 | |
| Capacity, lb./hr. | 180,000 |
| Design Pressure, lb./sq.in. | 400 |
| Total Steam Temp., F. | 725 |
| Furnace Width | 22' - 8" |
| Combustion Rate, lb.coal/hr./ sq.ft. grate area | 54.6 |
| Preheated Air Temp.,'F. | 300 |

# • BOILER AND FURNACE DEVELOPMENT •
## *OIL- AND GAS-FIRED FURNACES*

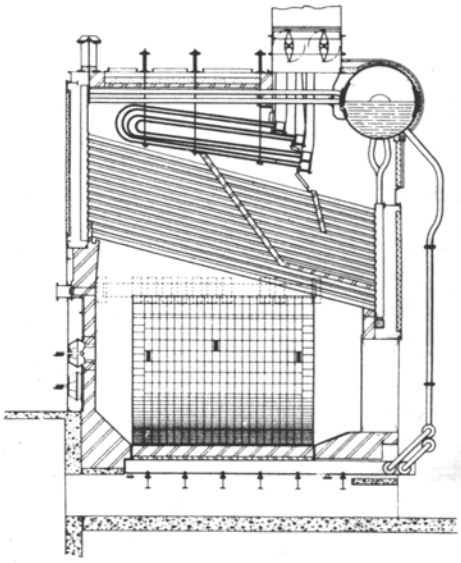


Fig. 7
Station "B"
San Diego Gas & Electric Co.
San Diego, Calif.

| | |
|---|---|
| Ordered 1926, In Service 1927 | |
| Capacity, lb./hr. | 145,000 |
| Design Pressure, lb./sq.in. | 250 |
| Total Steam Temp., F. | 555 |
| Furnace Width | 21' – 4" |
| Fuel | Oil |

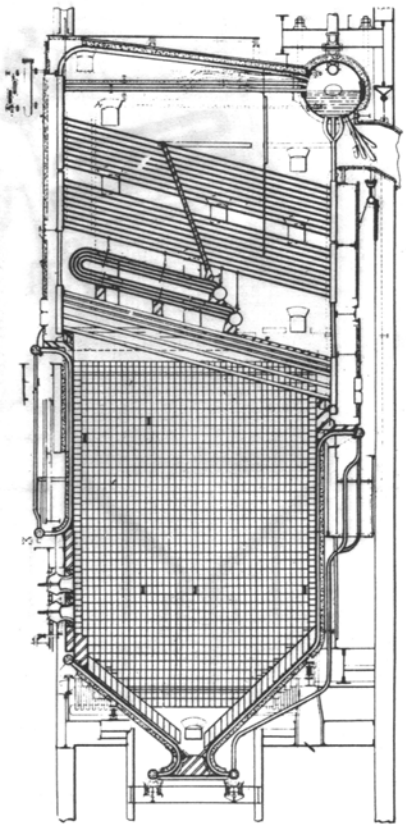


Fig. 8
Long Beach #3 Plant
Southern California Edison Co.
Long Beach, Calif.

| | |
|---|---|
| Ordered 1926, In Service 1928 | |
| Capacity, lb./hr. | 350,000 |
| Design Pressure, lb./sq.in. | 460 |
| Total Steam Temp., F. | 700 |
| Furnace Width | 30' – 2-1/2" |
| Fuel | Oil & Nat. Gas |

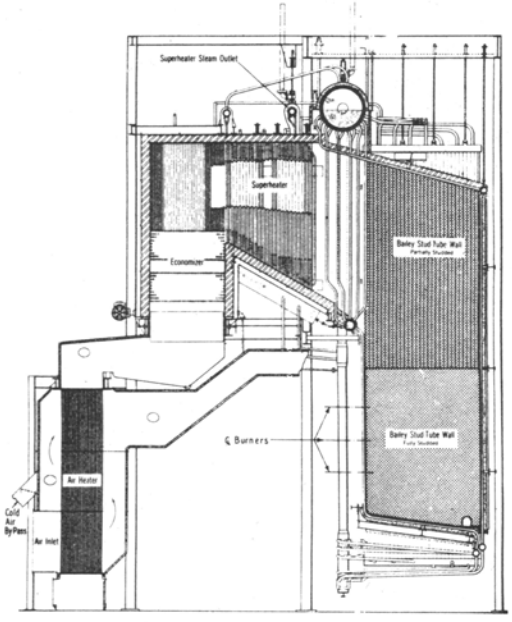



Fig. 9
Avon, Martinez, and Oleum
Steam Plants
Pacific Gas & Electric Co.
San Francisco, Calif.

| | |
|---|---|
| Ordered 1938 | |
| Capacity, lb./hr. | 200,000 |
| Design Pressure, lb./sq.in. | 1525 |
| Total Steam Temp., F. | 950 |
| Furnace Width | 11' – 8" |
| Fuel | Nat. Gas, Oil, Acid Sludge, Fut. Pulv.Pet Coke |

# • BOILER AND FURNACE DEVELOPMENT •

## *HOPPER-BOTTOM FURNACES FOR PULVERIZED-COAL FIRING*

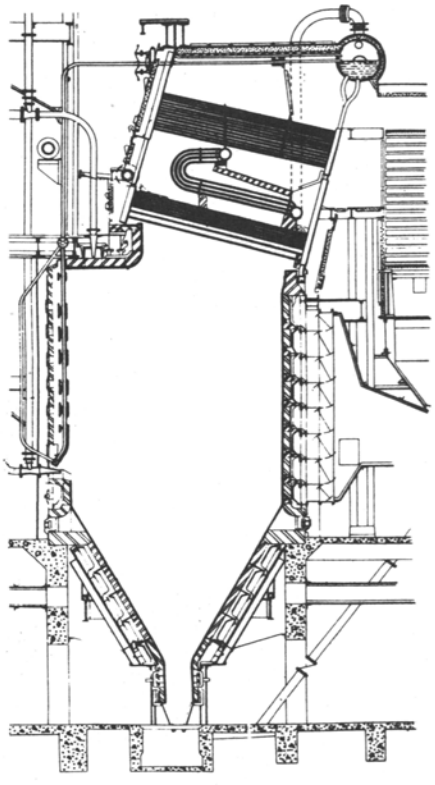


Fig. 10

Columbia Power Station

Cincinnati Gas & Electric Co.

Columbia Park, Ohio

Ordered 1924, Waterwalls as shown ordered 1928

| | |
|---|---|
| Capacity, lb./hr. | 200,000 |
| Design Pressure, lb./sq.in. | 650 |
| Total Steam Temp., F. | 740 |
| Furnace Width | 22' – 10" |

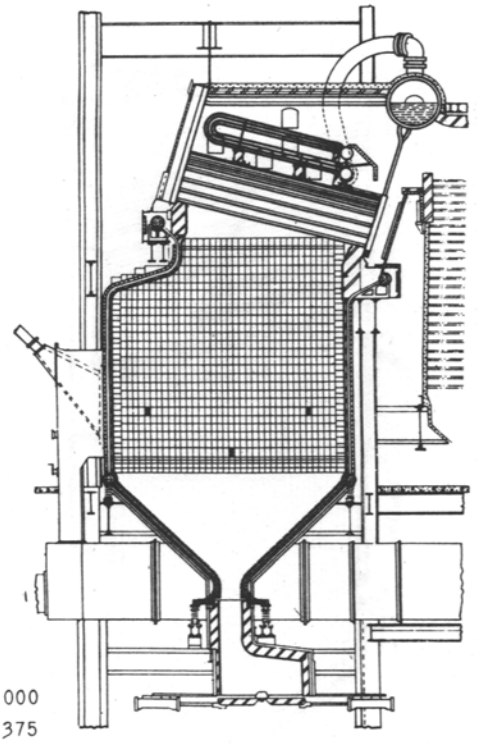


Fig. 11

Calumet Station

Commonwealth Edison Co.

Chicago, Ill.

Ordered 1925, Converted to Direct Firing 1928

| | |
|---|---|
| Capacity, lb./hr. | 250,000 |
| Design Pressure, lb./sq.in. | 375 |
| Total Steam Temp., F. | 700 |
| Furnace Width | 23' – 8" |

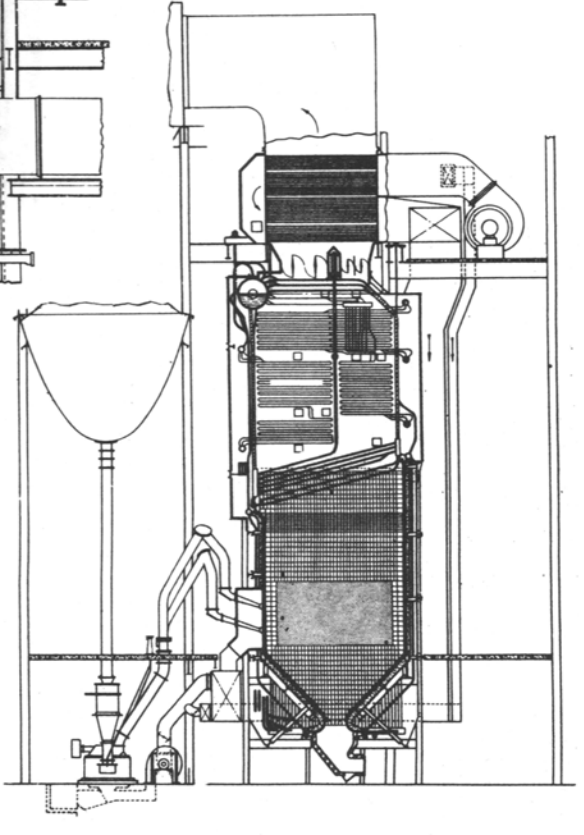


Fig. 12

Millers Ford Station

Dayton Power & Light Co.

Dayton, Ohio

Ordered 1936, In Service 1937

| | |
|---|---|
| Capacity, lb./hr. | 375,000 |
| Design Pressure, lb./sq.in. | 1375 |
| Total Steam Temp., F. | 900 |
| Furnace Width | 18' – 7-1/2" |

# • BOILER AND FURNACE DEVELOPMENT •

## *SLAG-TAP FURNACES FOR PULVERIZED-COAL FIRING*

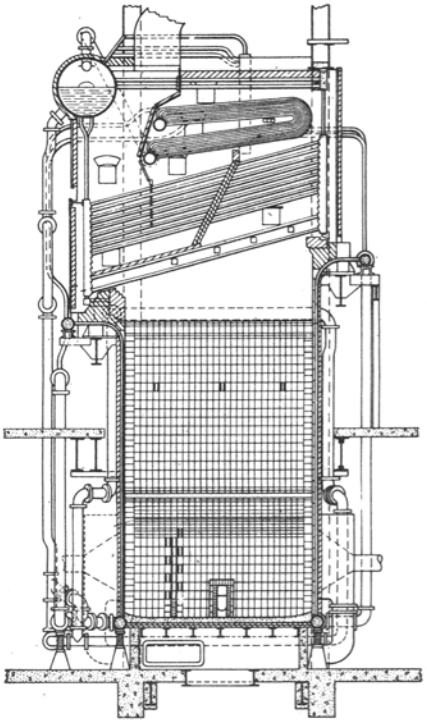


Fig. 13
Charles R. Huntley Station N. 1
Buffalo Niagaro Electric Co.
Buffalo, N. Y.

| | |
|---|---|
| Ordered 1925, In Service 1926 | |
| Capacity, lb./hr. | 250,000 |
| Design Pressure, lb./sq.in. | 325 |
| Total Steam Temp., F. | 750 |
| Furnace Width | 24' - 3-3/4" |

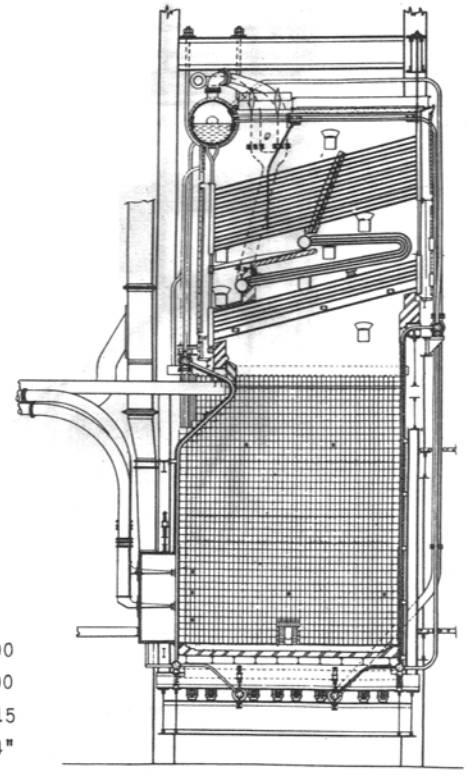


Fig. 14
Toronto Station
Ohio Edison Company
Toronto, Ohio

| | |
|---|---|
| Ordered 1927, In Service 1929 | |
| Capacity, lb./hr. | 350,000 |
| Design Pressure, lb./sq.in. | 400 |
| Total Steam Temp., F. | 715 |
| Furnace Width | 22' - 3-1/4" |

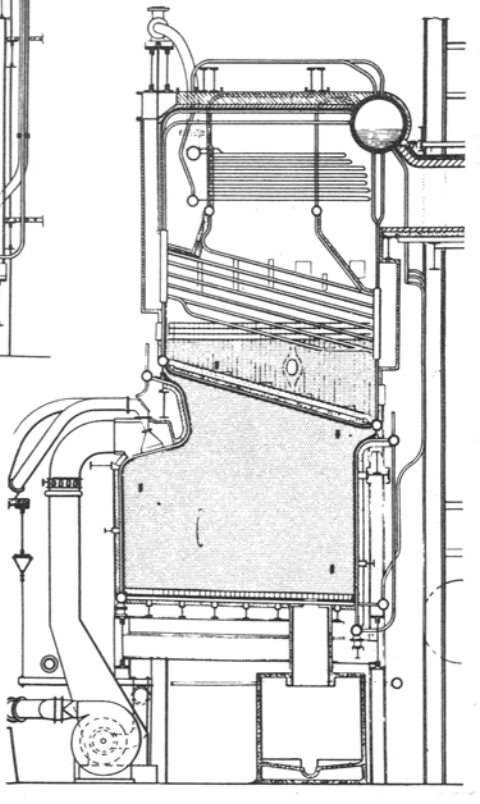


Fig. 15
State Line Station
Chicago District Electric Generating Co.
Hammond, Indiana

| | |
|---|---|
| Ordered 1930, In Service 1937 | |
| Capacity, lb./hr. | 500,000 |
| Design Pressure, lb./sq.in. | 1400 |
| Total Steam Temp., F. | 850 |
| Furnace Width | 38' - 10" |

# • BOILER AND FURNACE DEVELOPMENT •

## *TWO-STAGE FURNACES FOR PULVERIZED-COAL FIRING*

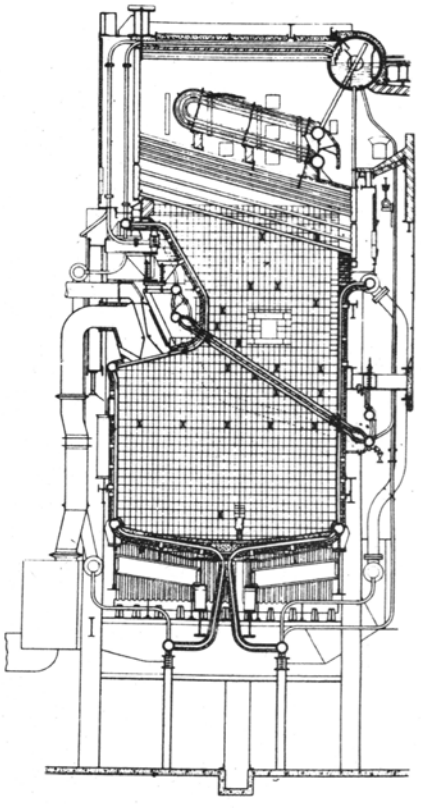


Fig. 16
State Line Station (Boiler No. 5)
Chicago District Electric
Generating Co.
Hammond, Indiana

Ordered 1927, Converted from hopper bottom to two-stage slag tap in 1930

| | |
|---|---|
| Capacity, lb./hr. | 450,000 |
| Design Pressure, lb./sq.in. | 800 |
| Total Steam Temp., F. | 758 |
| Furnace Width | 34' - 7" |

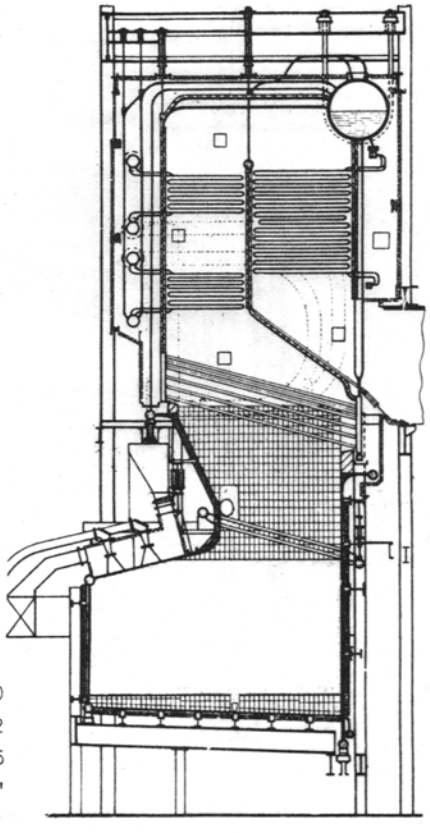


Fig. 17
Buzzard Point Station
Potomac Electric Power Co.
Washington, D. C.

Ordered 1932, In Service 1933

| | |
|---|---|
| Capacity, lb./hr. | 375,000 |
| Design Pressure, lb./sq.in. | 752 |
| Total Steam Temp., F. | 835 |
| Furnace Width | 21' -8-3/4" |

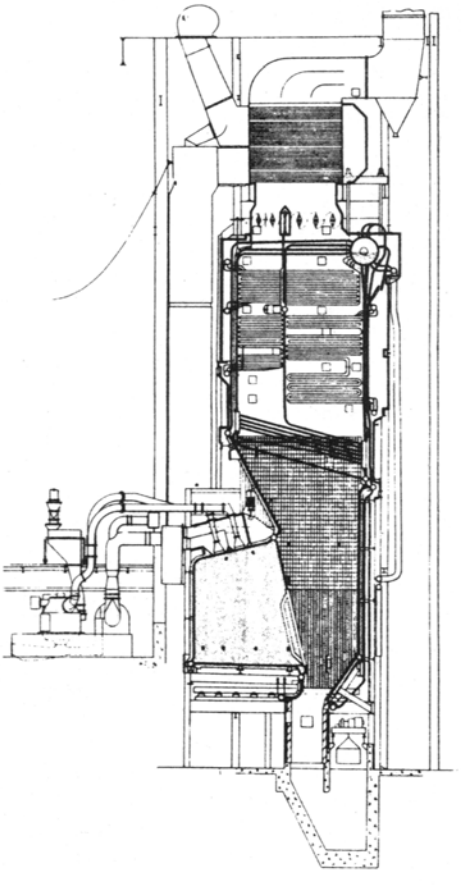


Fig. 18
Springdale Station
West Penn Power Co.
Springdale, Pa.

Ordered 1936, In Service 1937

| | |
|---|---|
| Capacity, lb./hr. | 450,000 |
| Design Pressure, lb./sq.in. | 1450 |
| Total Steam Temp., F. | 935 |
| Furnace Width | 19' - 7" |

# • BOILER AND FURNACE DEVELOPMENT •

## *TWO-STAGE FURNACES FOR PULVERIZED-COAL FIRING*

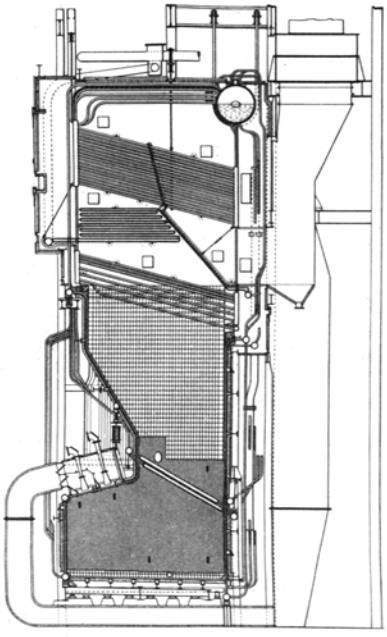


Fig. 19
Richmond Station
Philadelphia Electric Co.
Philadelphia, Pa.

| | |
|---|---|
| Ordered 1933, In Service 1935 | |
| Capacity, lb./hr. | 600,000 |
| Design Pressure, lb./sq.in. | 488 |
| Total Steam Temp., F. | 850 |
| Furnace Width | 29' - 6" |

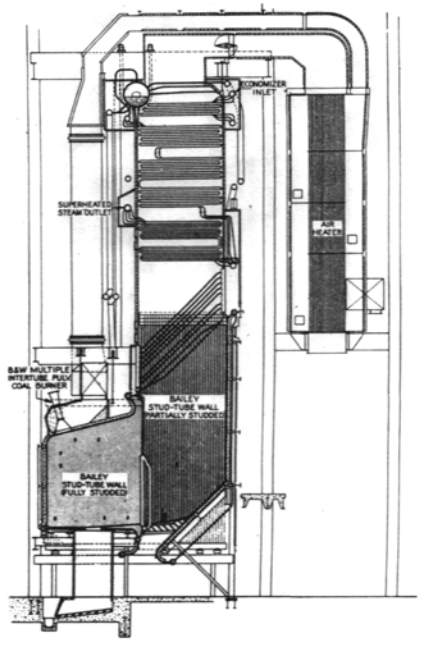



Fig. 20
Fisk Station
Commonwealth Edison Co.
Chicago, Ill.

| | |
|---|---|
| Ordered 1936, In Service 1937 | |
| Capacity, lb./hr. | 412,500 |
| Design Pressure, lb./sq.in. | 1,450 |
| Total Steam Temp., F. | 910 |
| Furnace Width | 24' - 7¼" |

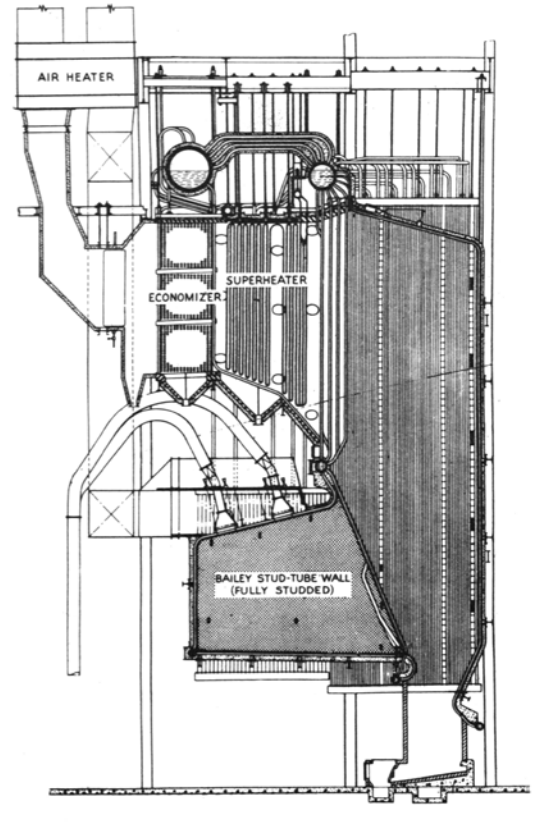
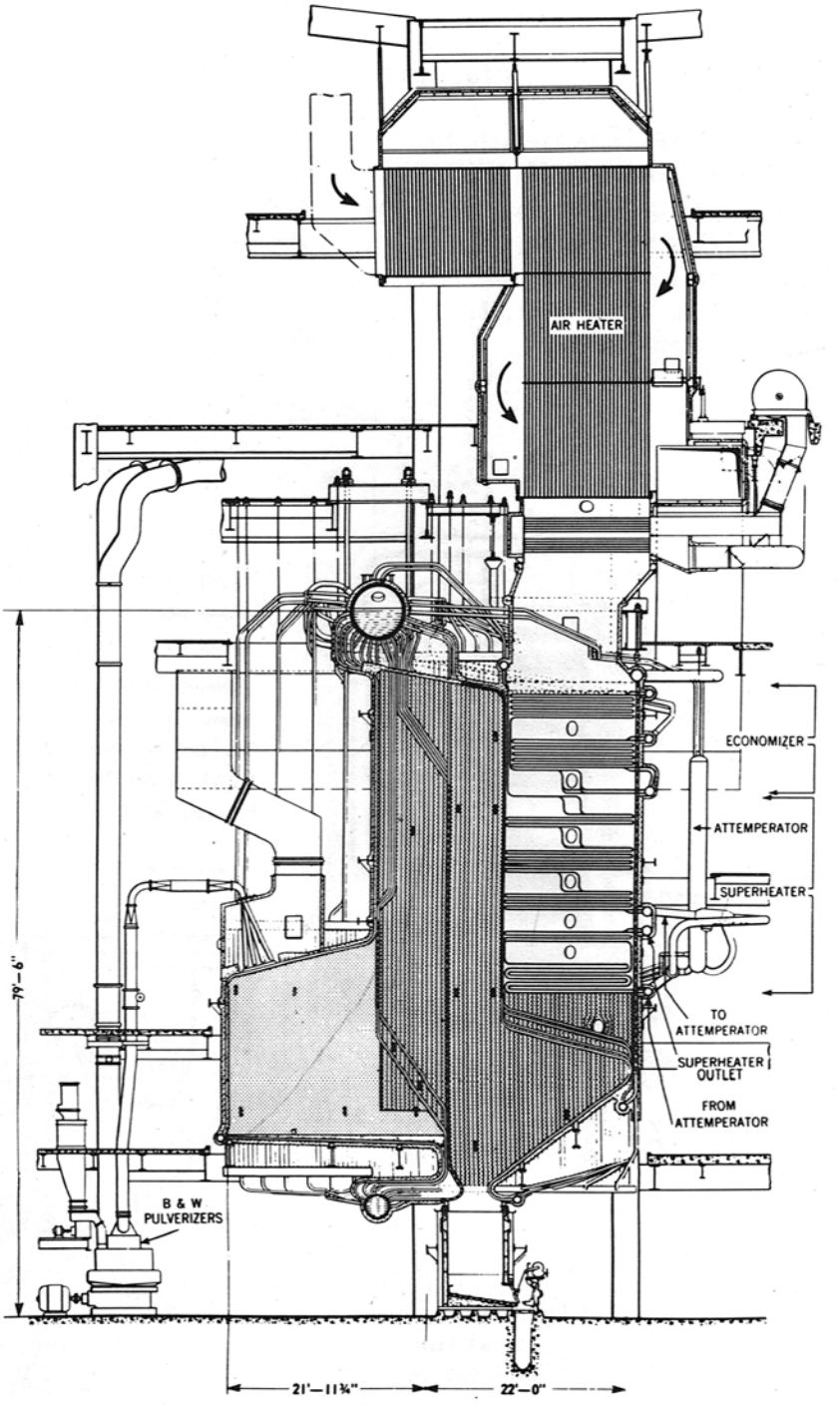



Fig. 21
Essex Generating Station
Public Service Electric & Gas Co.
Newark, N. J.

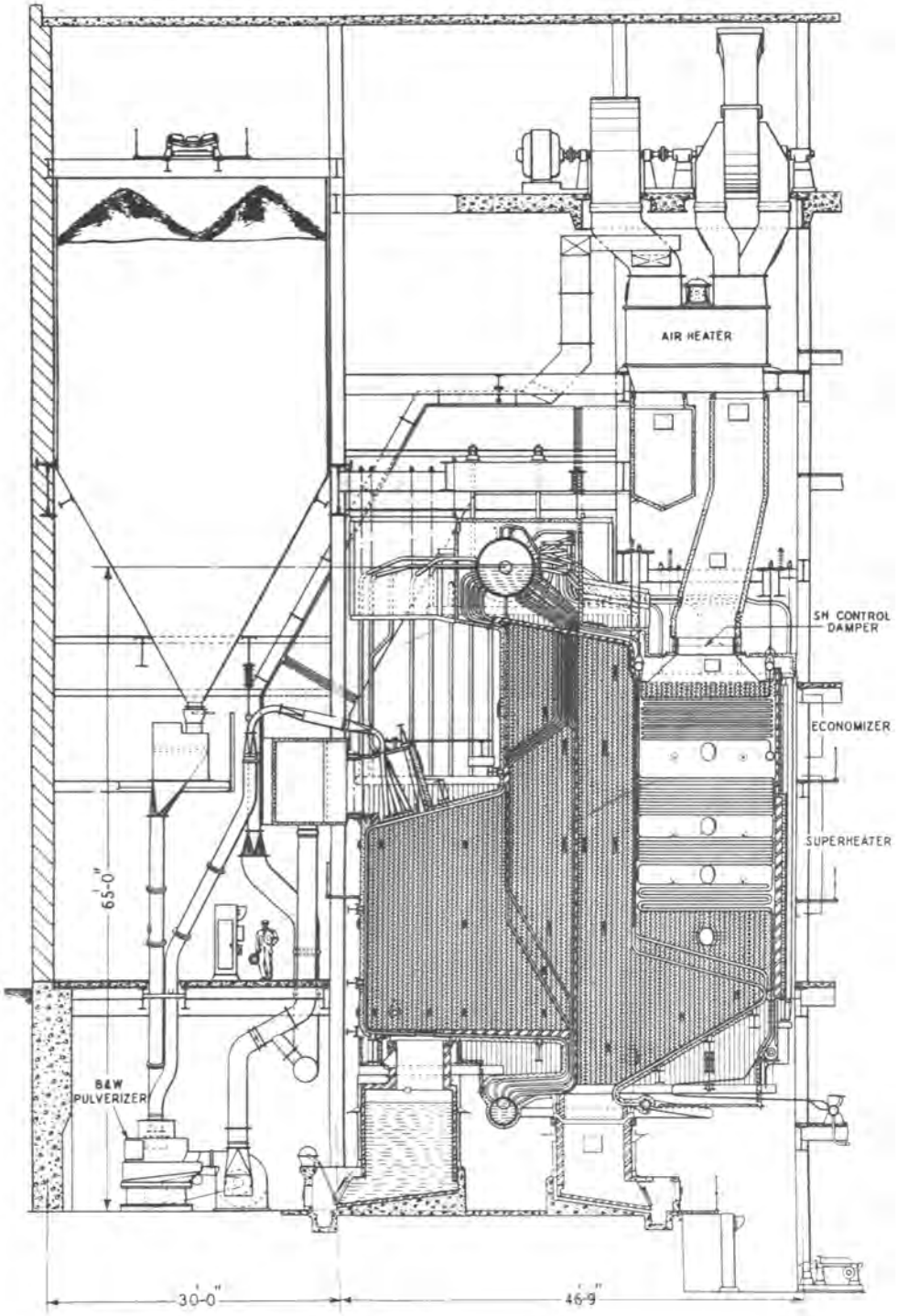
| | |
|---|---|
| Ordered 1937, In Service 1938 | |
| Capacity, lb./hr. | 605,000 |
| Design Pressure, lb./sq.in. | 1,475 |
| Total Steam Temp., F. | 950 |
| Furnace Width | 22' - 4" |




BUFFALO-NIAGARA ELECTRIC CORP.
HUNTLEY STATION NO. 2,
BUFFALO, N. Y.

ONE OPEN-PASS BOILER

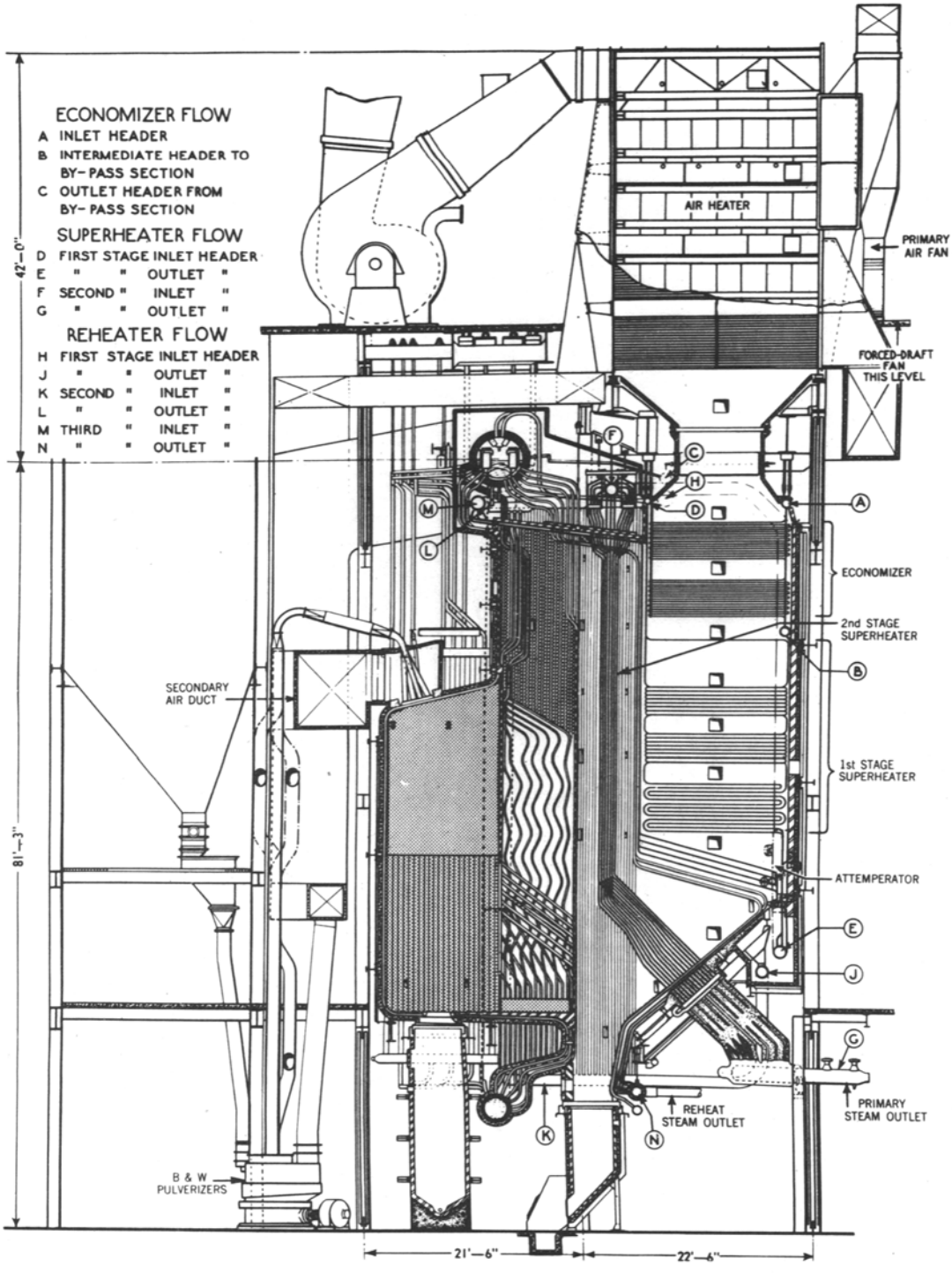
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 900,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1500 Psi |
| Total Steam Temperature. . . . . | 903 F |
| Furnace Width. . . . . | 31' 2" |




TENNESSEE VALLEY AUTHORITY
WATTS BAR STEAM PLANT
SPRING CITY, TENN.

FOUR OPEN-PASS BOILERS

| | |
|---|---|
| Max. Continuous Capacity, Each . . | 600,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1000 Psi |
| Total Steam Temperature. . . . . | 900 F |
| Furnace Width. . . . . | 27' 9-1/2" |

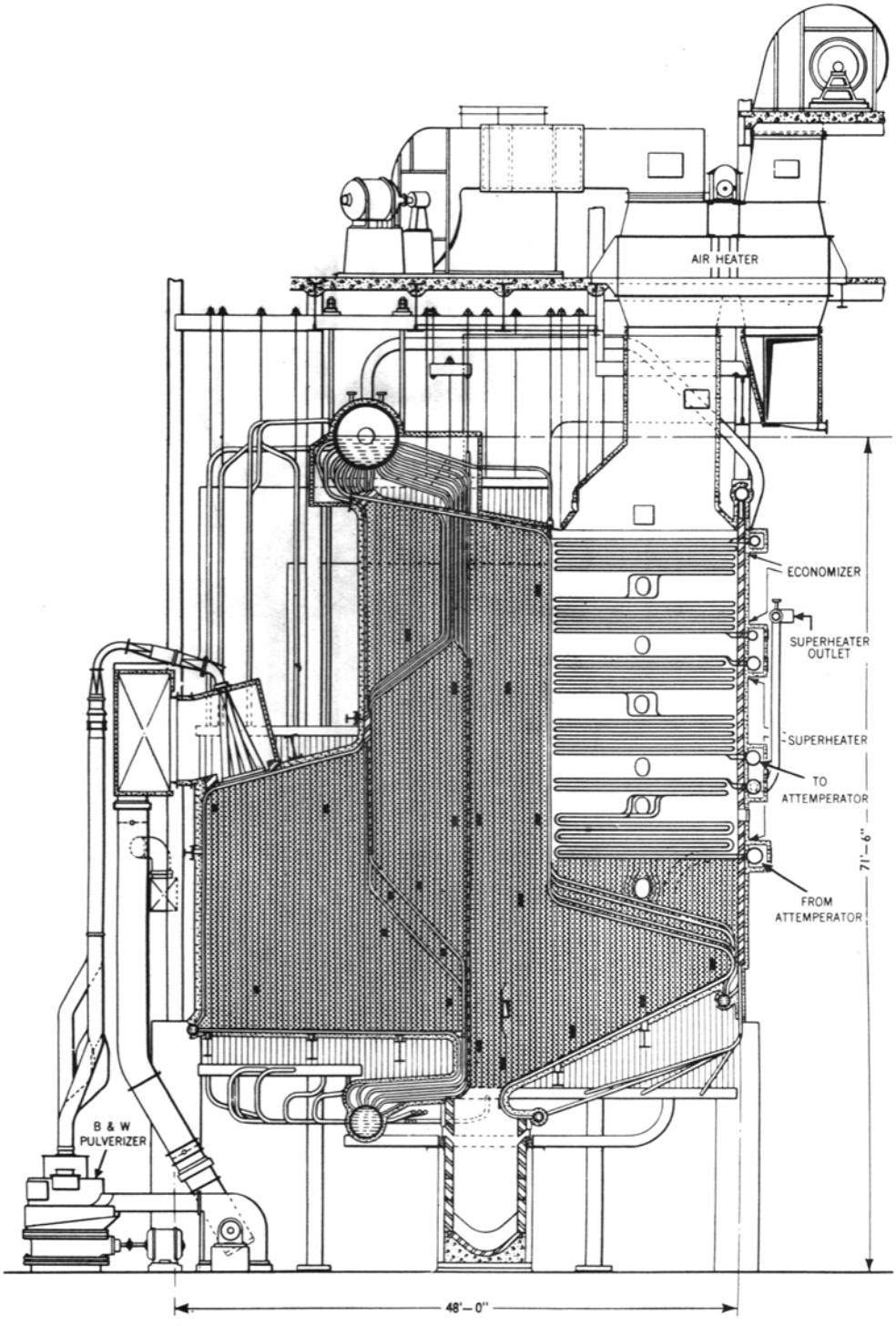



INDIANA & MICHIGAN ELECTRIC CO.
TWIN BRANCH STATION, MISHAWAKA, IND.

ONE OPEN-PASS BOILER

| | |
|---|---|
| Max. Continuous Capacity . . . . . | 550,000 Lb. Steam Per Hr.* |
| Design Pressure. . . . . | 2650 Psi |
| Total Steam Temperature. . . . . | 940 F |
| Furnace Width. . . . . | 25' 5" |

**Plus 440,000 Lb. reheat steam--see Table P 53*

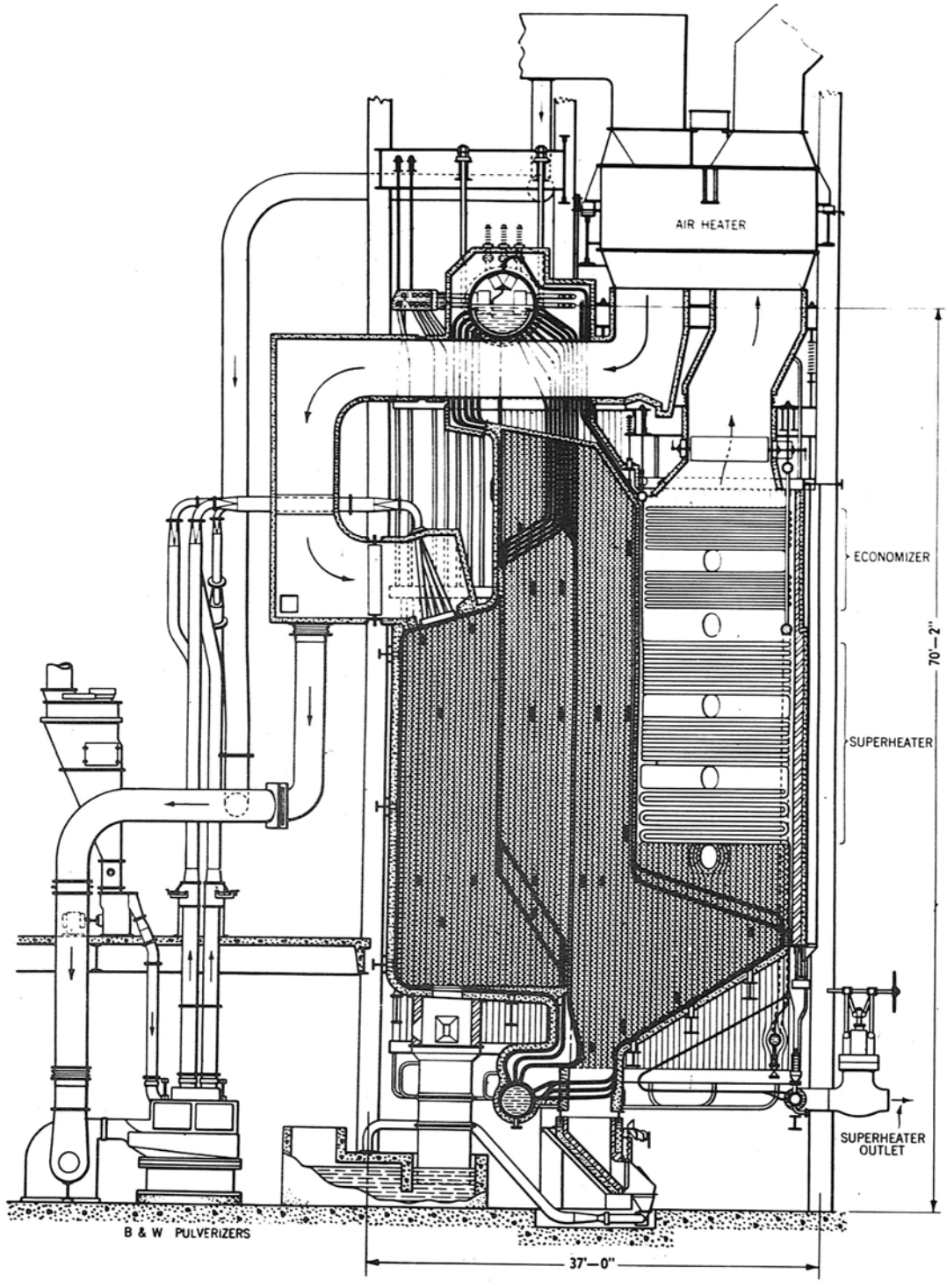



OHIO POWER COMPANY
PHILO STATION, PHILO, OHIO

FOUR OPEN-PASS BOILERS

| | |
|---|---|
| Max. Continuous Capacity, Each . . | 450,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1500 Psi |
| Total Steam Temperature. . . . . | 950 F |
| Furnace Width. . . . . | 16' 8" |

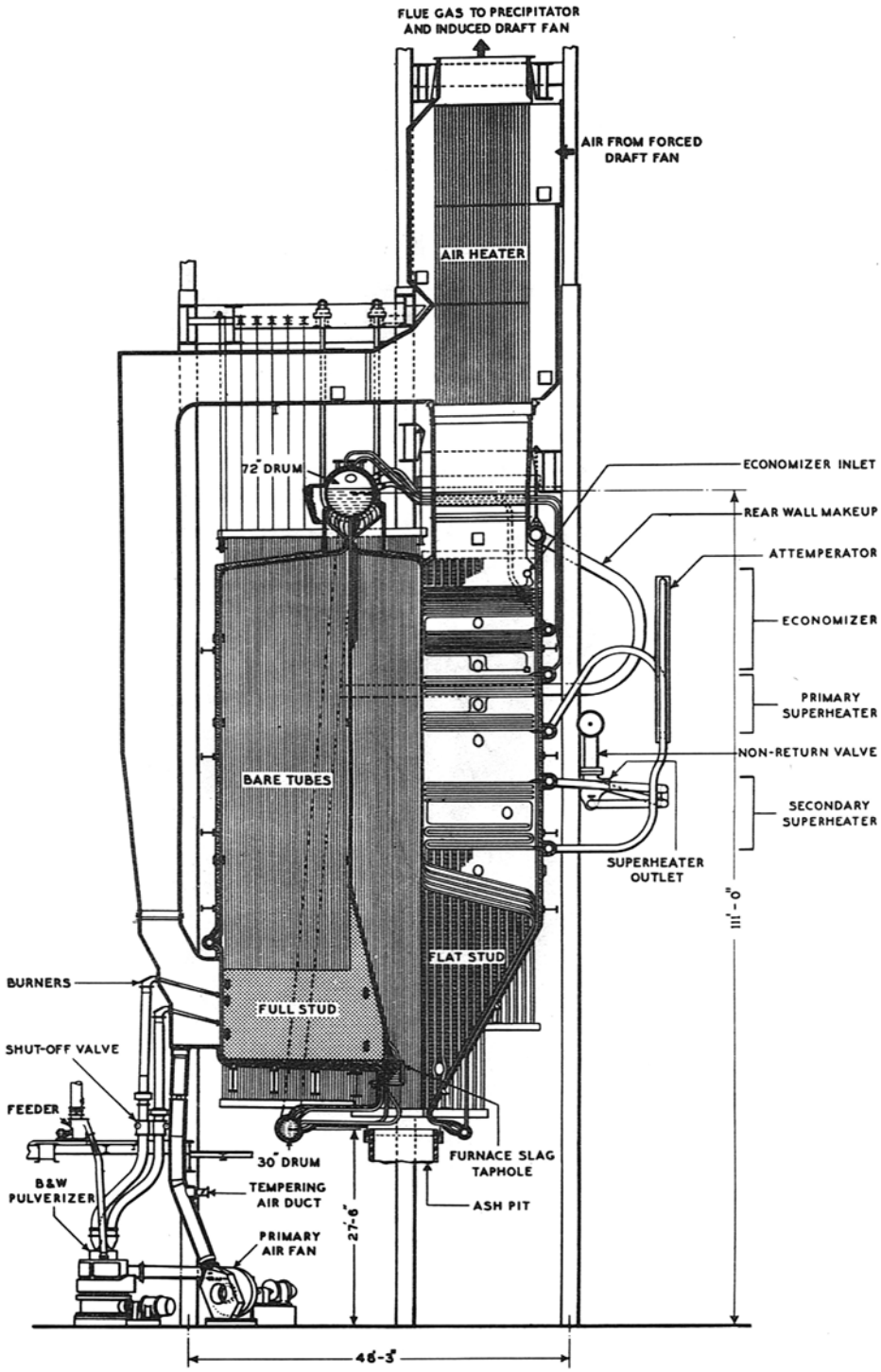
Two Similar Boilers in Service at
Indiana & Michigan Electric Co., Twin Branch Station




CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.,
WATERSIDE NO. 2 STATION, NEW YORK, N. Y.

TWO OPEN-PASS BOILERS

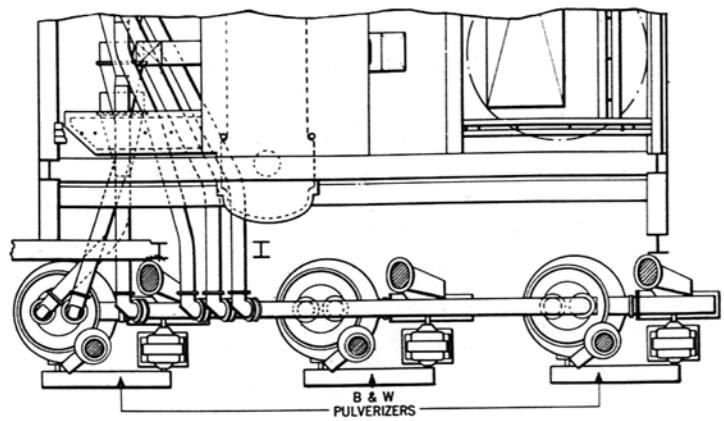
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 615,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1485 Psi |
| Total Steam Temperature. . . . . | 925 F |
| Furnace Width. . . . . | 29' 3-1/2" |

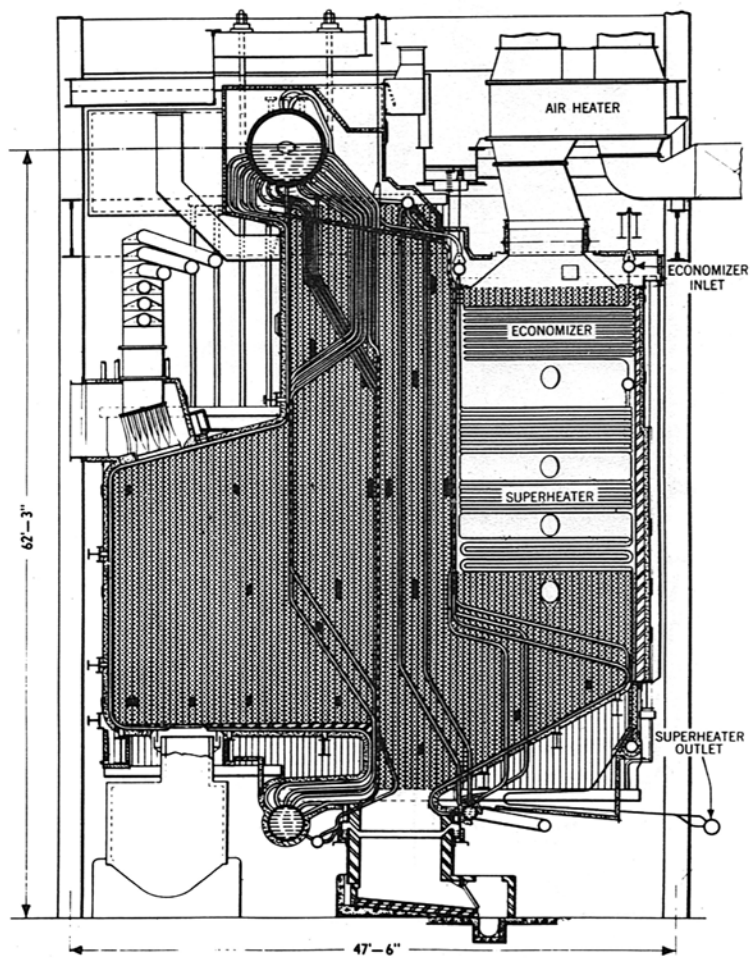



CONSOLIDATED EDISON CO. OF N.Y. INC.
HELL GATE STATION, NEW YORK, N.Y.

TWO OPEN-PASS BOILERS

| | |
|---|---|
| Max. Continuous Capacity, Each . . | 975,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1100 Psi |
| Total Steam Temperature. . . . . | 950 F |
| Furnace Width. . . . . | 41' 2" |

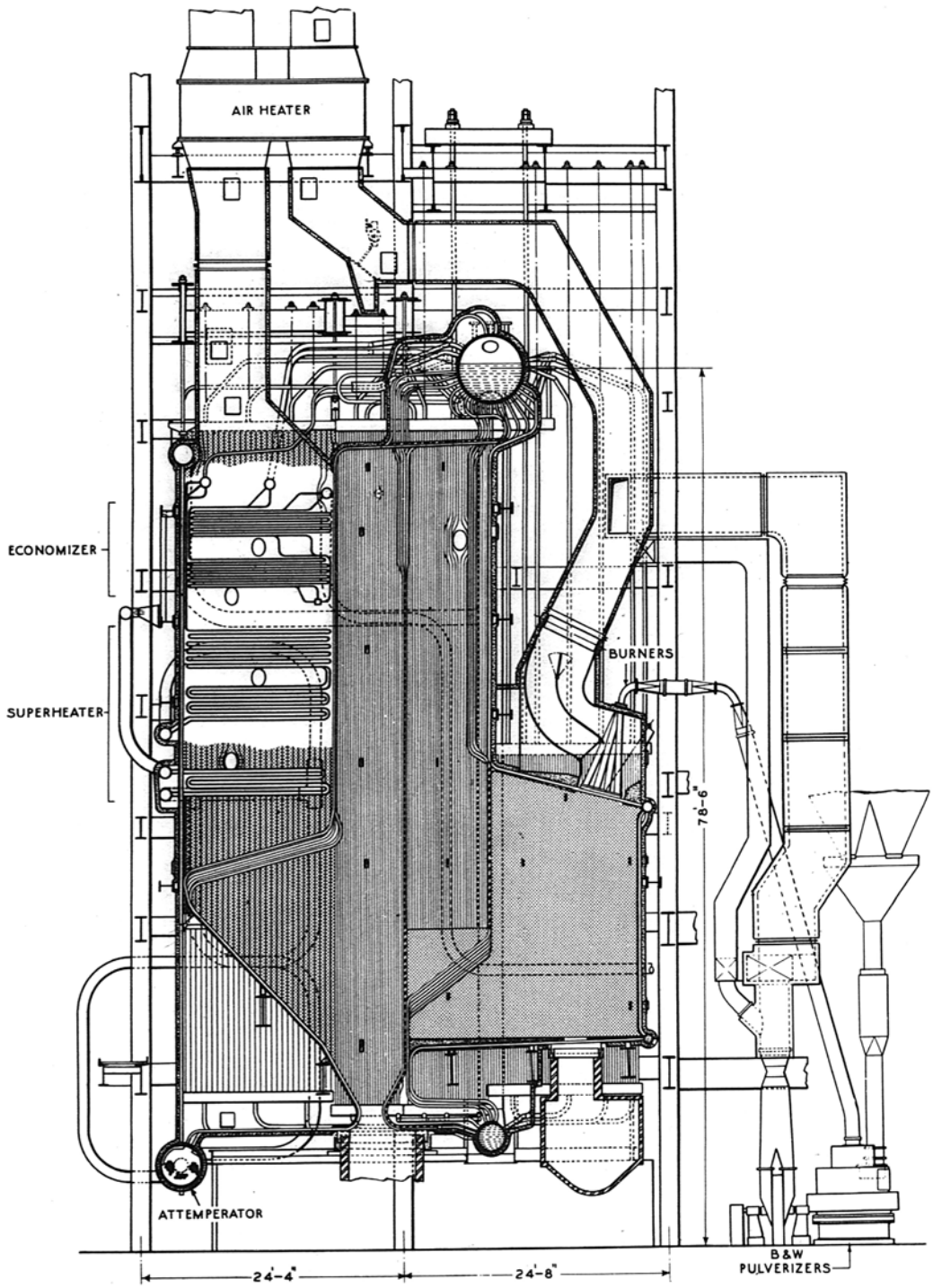



PHILADELPHIA ELECTRIC COMPANY
CHESTER STATION, PHILADELPHIA, PA.

TWO OPEN-PASS BOILERS

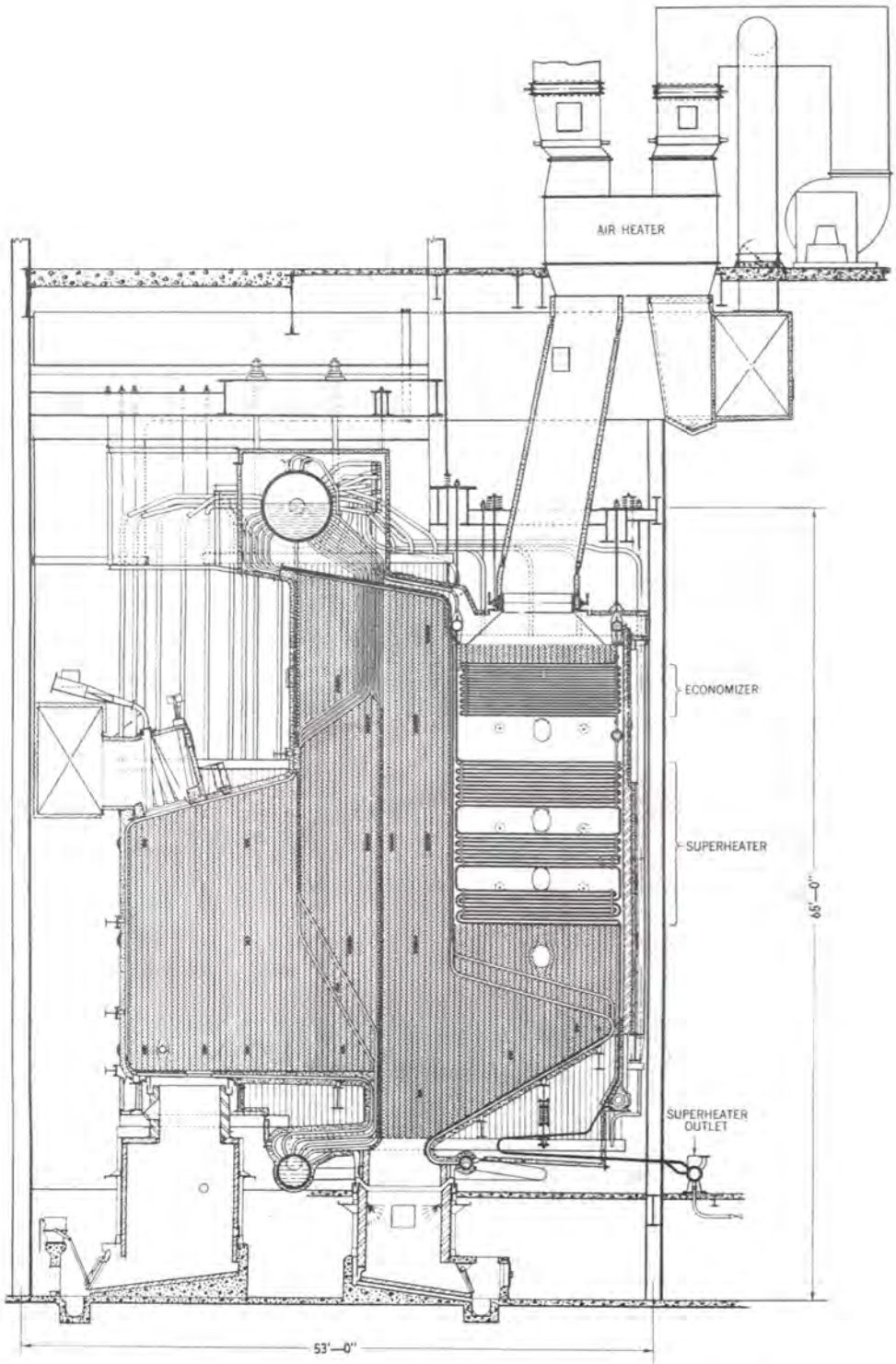
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 600,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1450 Psi |
| Total Steam Temperature. . . . . | 935 F |
| Furnace Width. . . . . | 26' 9-1/2" |




PHILADELPHIA ELECTRIC CO.
SOUTHWARK STATION
PHILADELPHIA, PA.

FOUR OPEN-PASS BOILERS

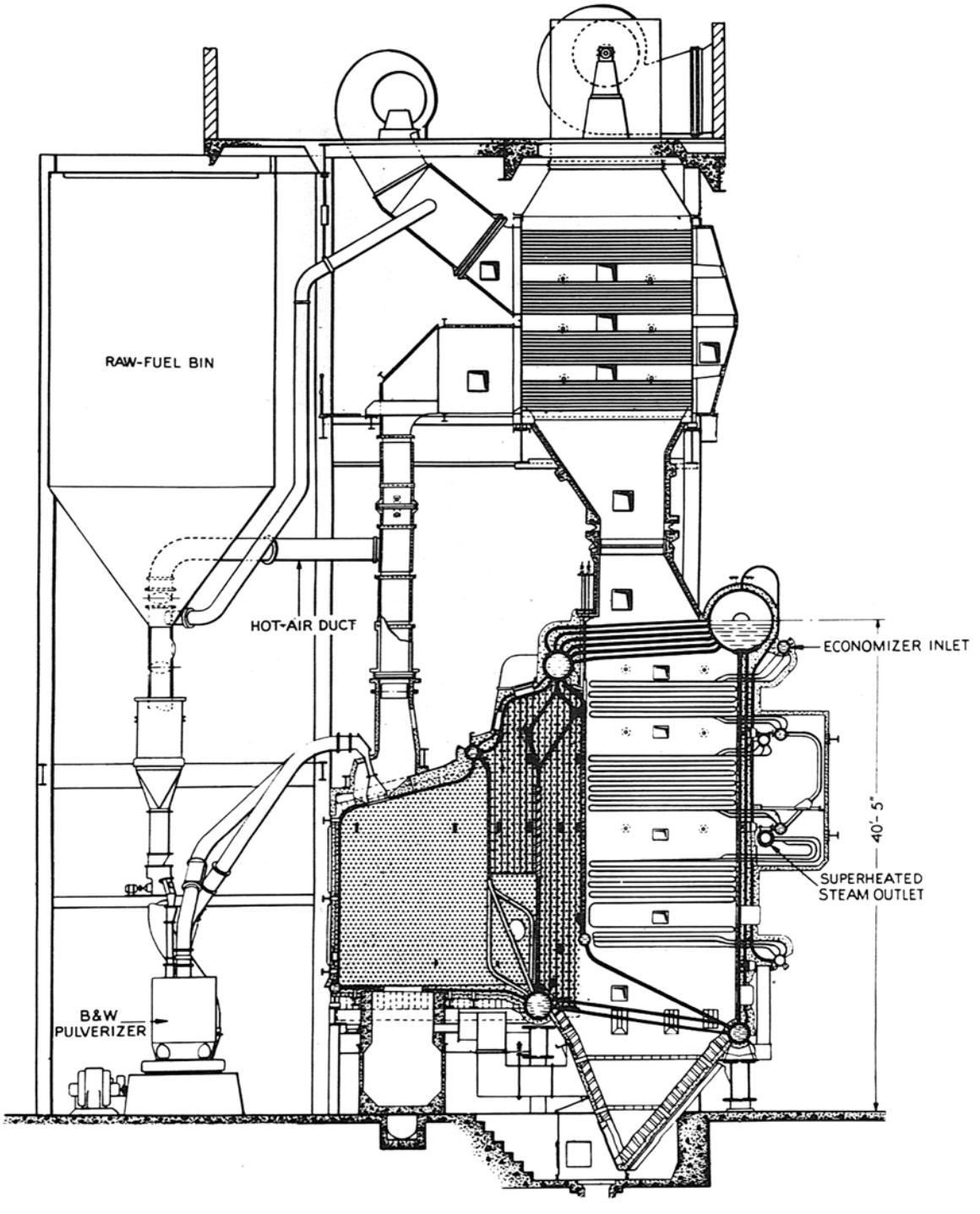
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 850,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1075 Psi |
| Total Steam Temperature. . . . . | 900 F |
| Furnace Width. . . . . | 33' 0" |




CLEVELAND ELECTRIC ILLUMINATING CO.
LAKE SHORE STATION, CLEVELAND, OHIO

TWO OPEN-PASS BOILERS

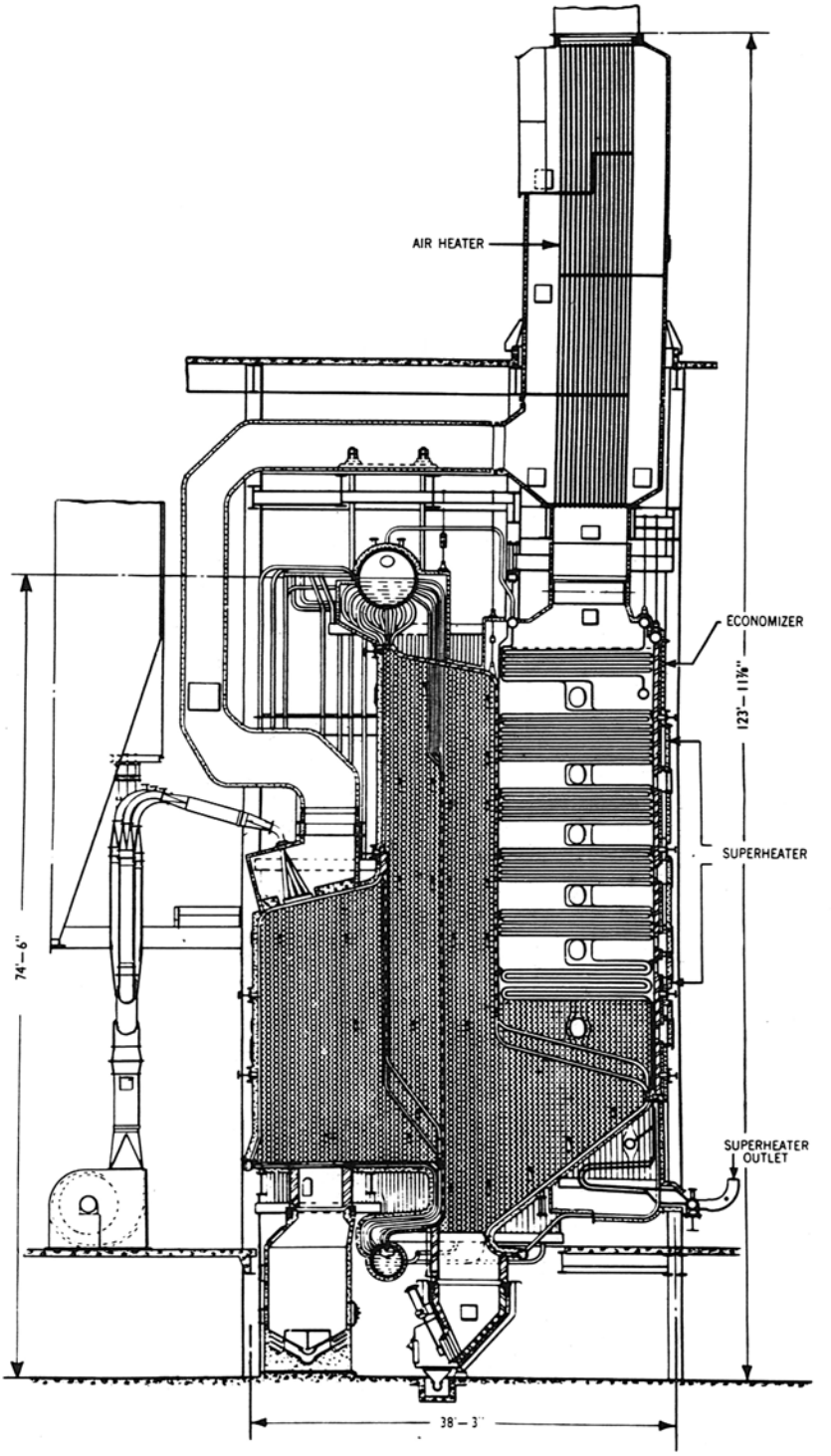
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 500,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1000 Psi |
| Total Steam Temperature. . . . . | 910 F |
| Furnace Width. . . . . | 26' 9-1/2" |




CINCINNATI GAS & ELECTRIC CO.
COLUMBIA POWER STATION
COLUMBIA PARK, OHIO

TWO OPEN-PASS BOILERS

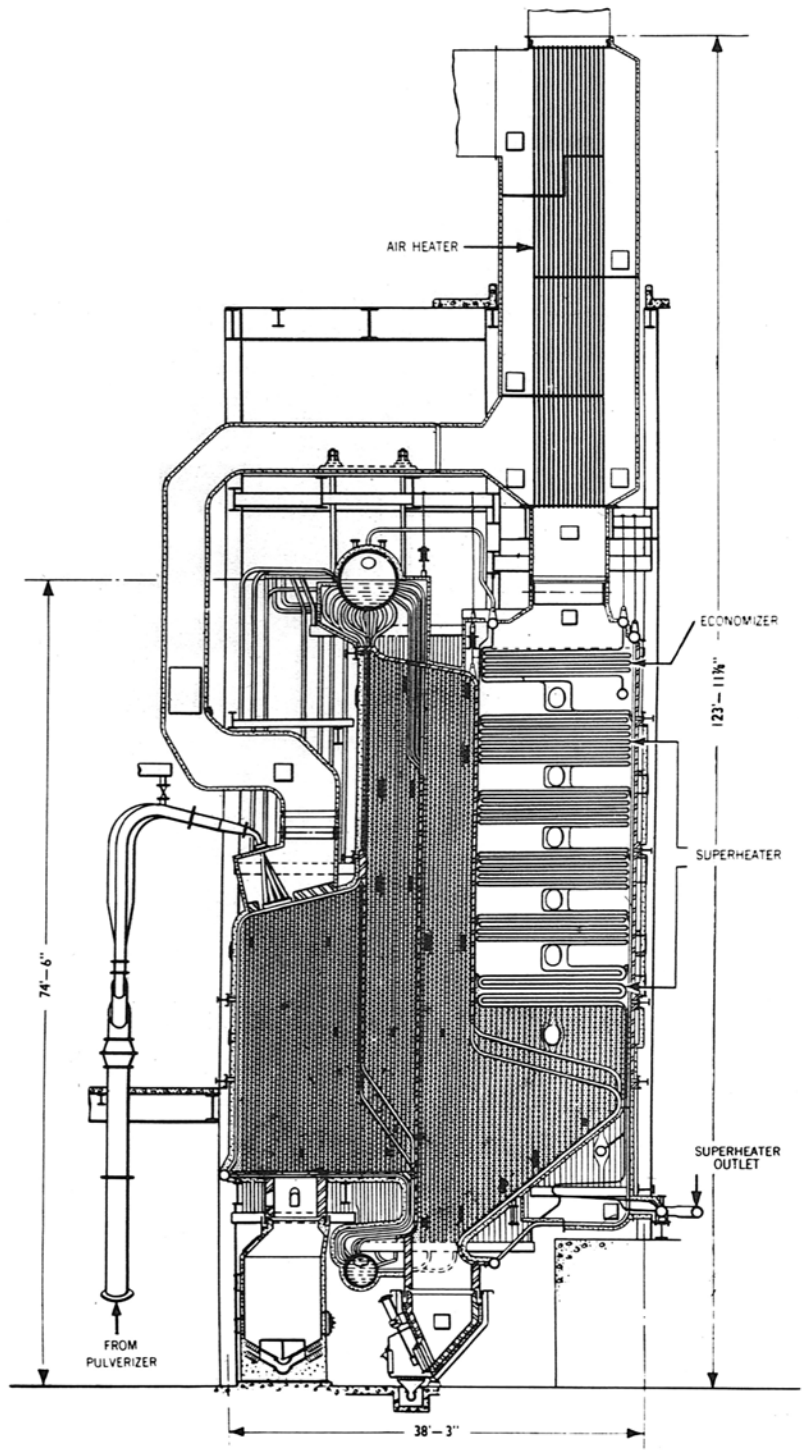
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 300,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 775 Psi |
| Total Steam Temperature, . . . . . | 910 F |
| Furnace Width. . . . . | 25' 8-3/4" |




WESTERN UNITED GAS & ELECTRIC CO.
AURORA POWER STATION, AURORA, ILL.

ONE OPEN-PASS BOILER

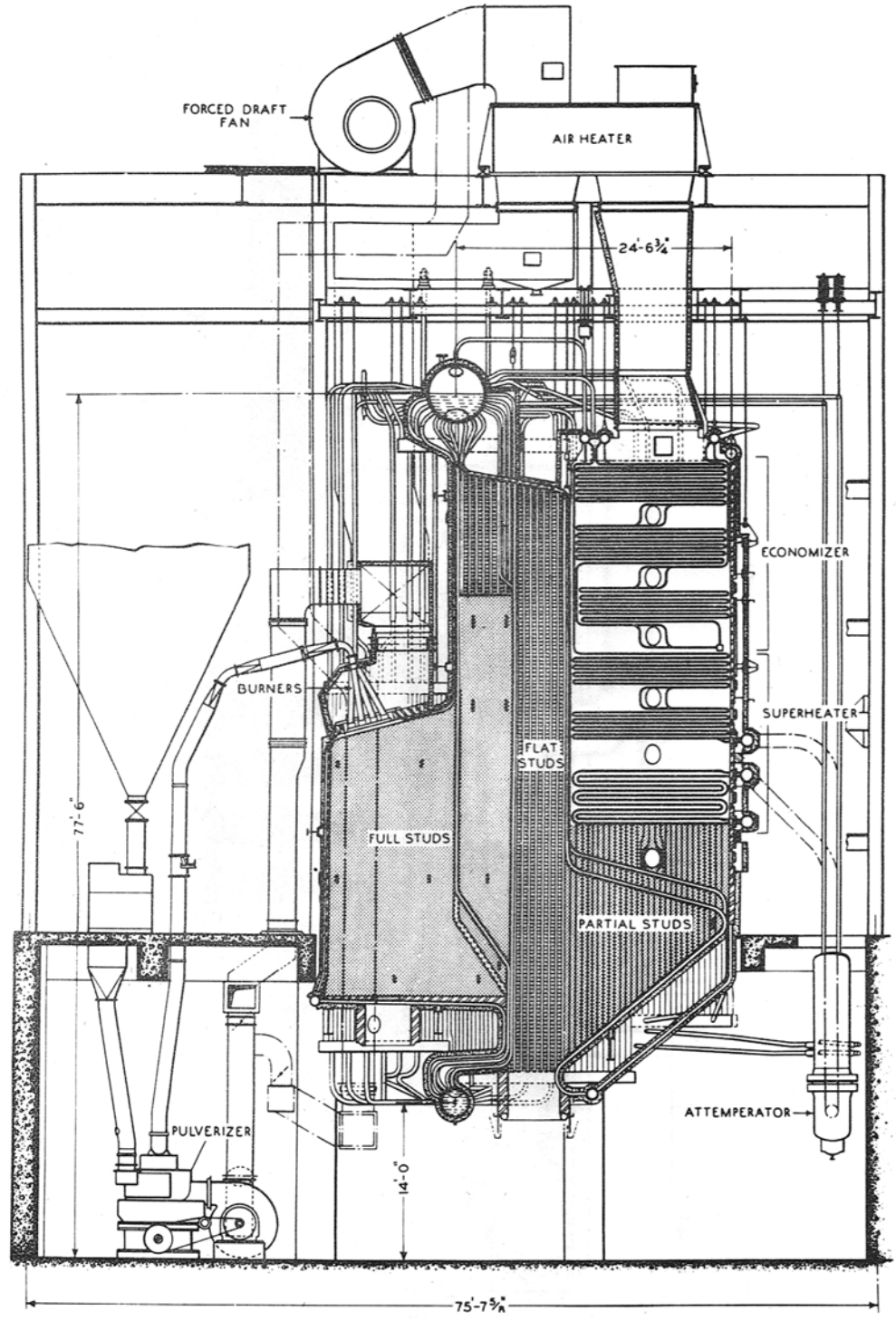
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 400,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1500 Psi |
| Total Steam Temperature. . . . . | 910 F |
| Furnace Width. . . . . | 23' 2" |




PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS
JOLIET STATION, JOLIET, ILL.

TWO OPEN-PASS BOILERS

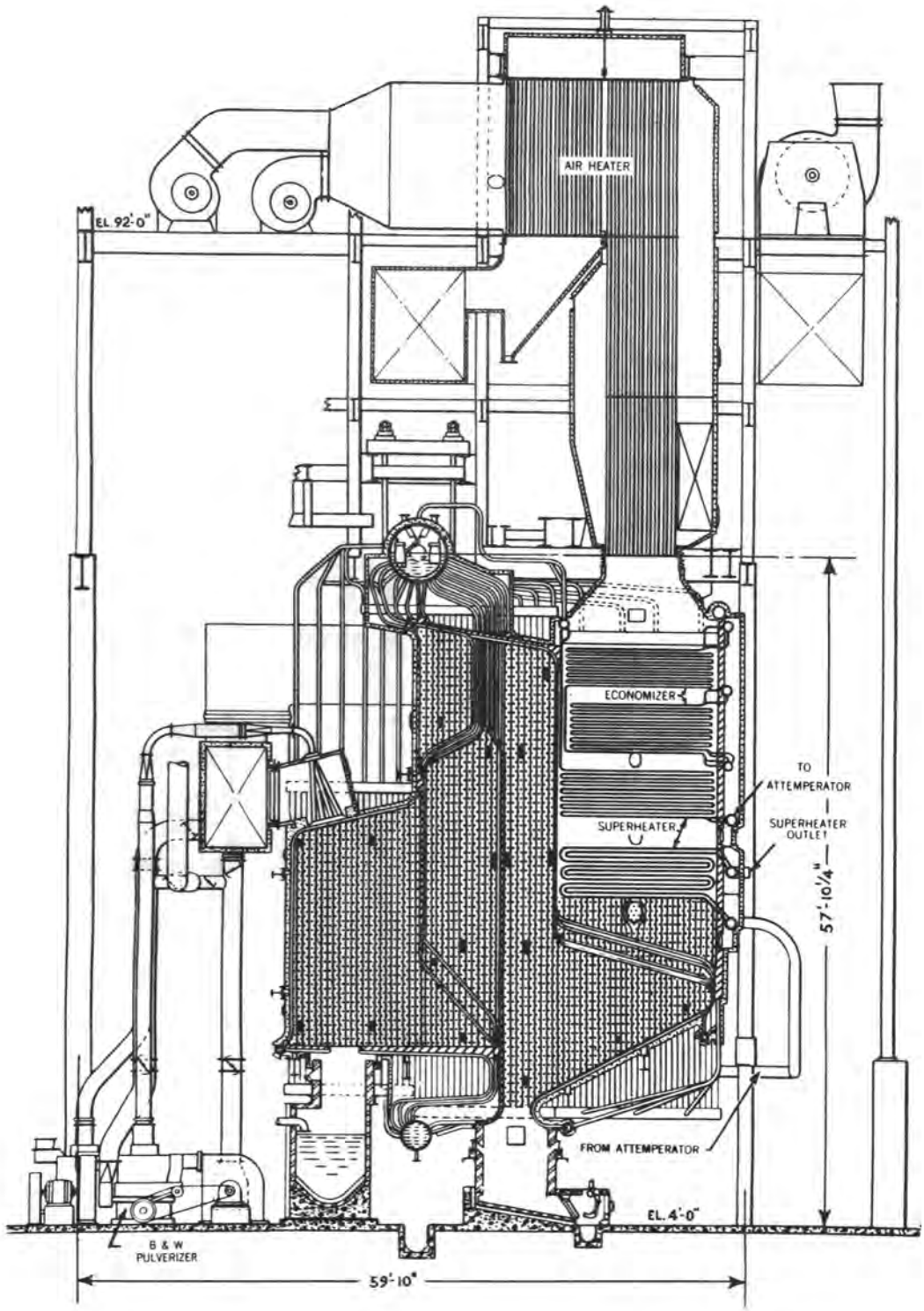
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 350,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1500 Psi |
| Total Steam Temperature. . . . . | 935 F |
| Furnace Width. . . . . | 20' 2" |




PUBLIC SERVICE CO. OF INDIANA
EDWARDSPORT POWER STATION, EDWARDSPORT, INDIANA

ONE OPEN-PASS BOILER

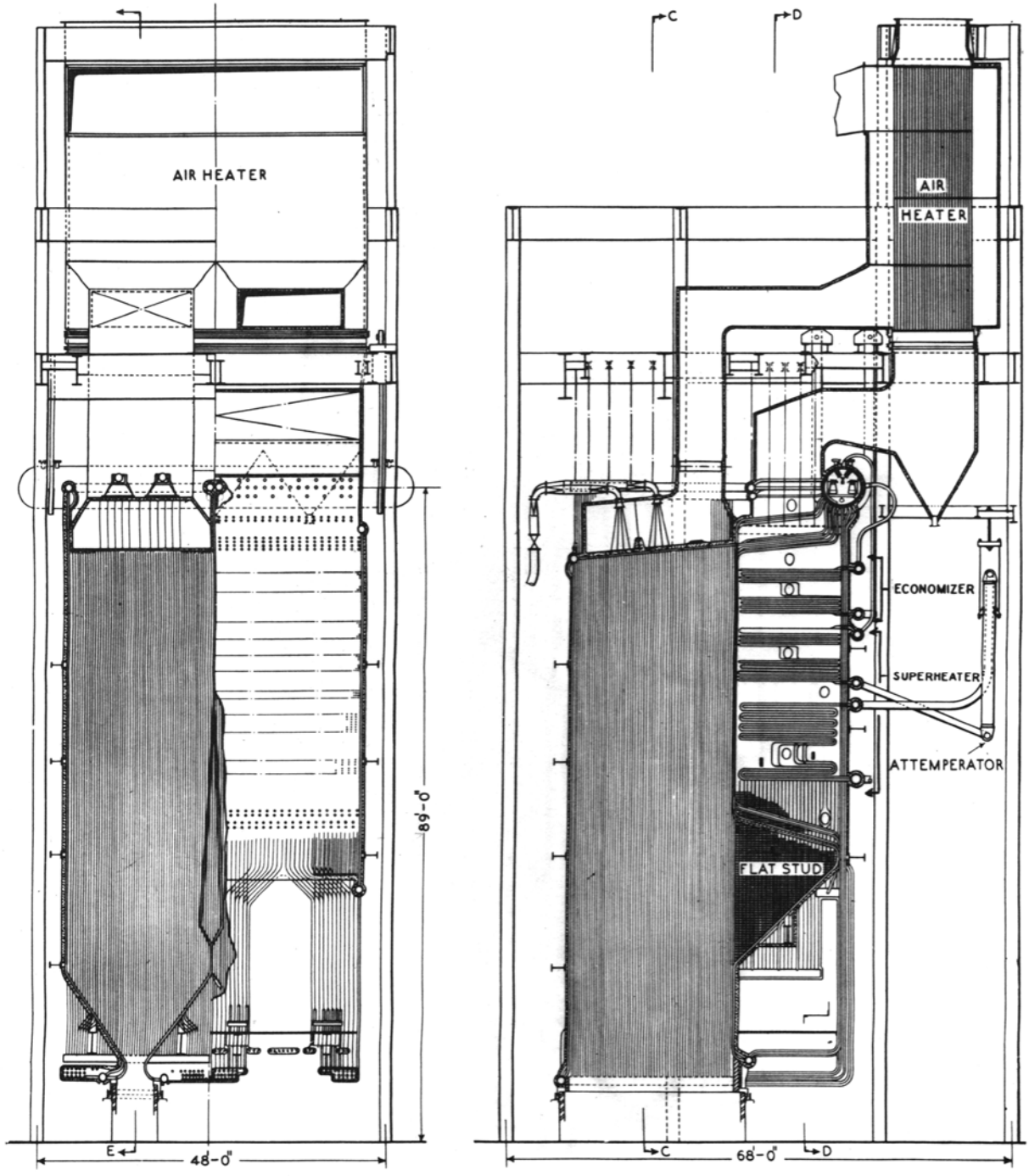
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 400,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1000 Psi |
| Total Steam Temperature. . . . . | 910 F |
| Furnace Width. . . . . | 20' 5-1/4" |




JERSEY CENTRAL POWER & LIGHT COMPANY
RARITAN RIVER PLANT, SAYREVILLE, N. J.

ONE OPEN-PASS BOILER

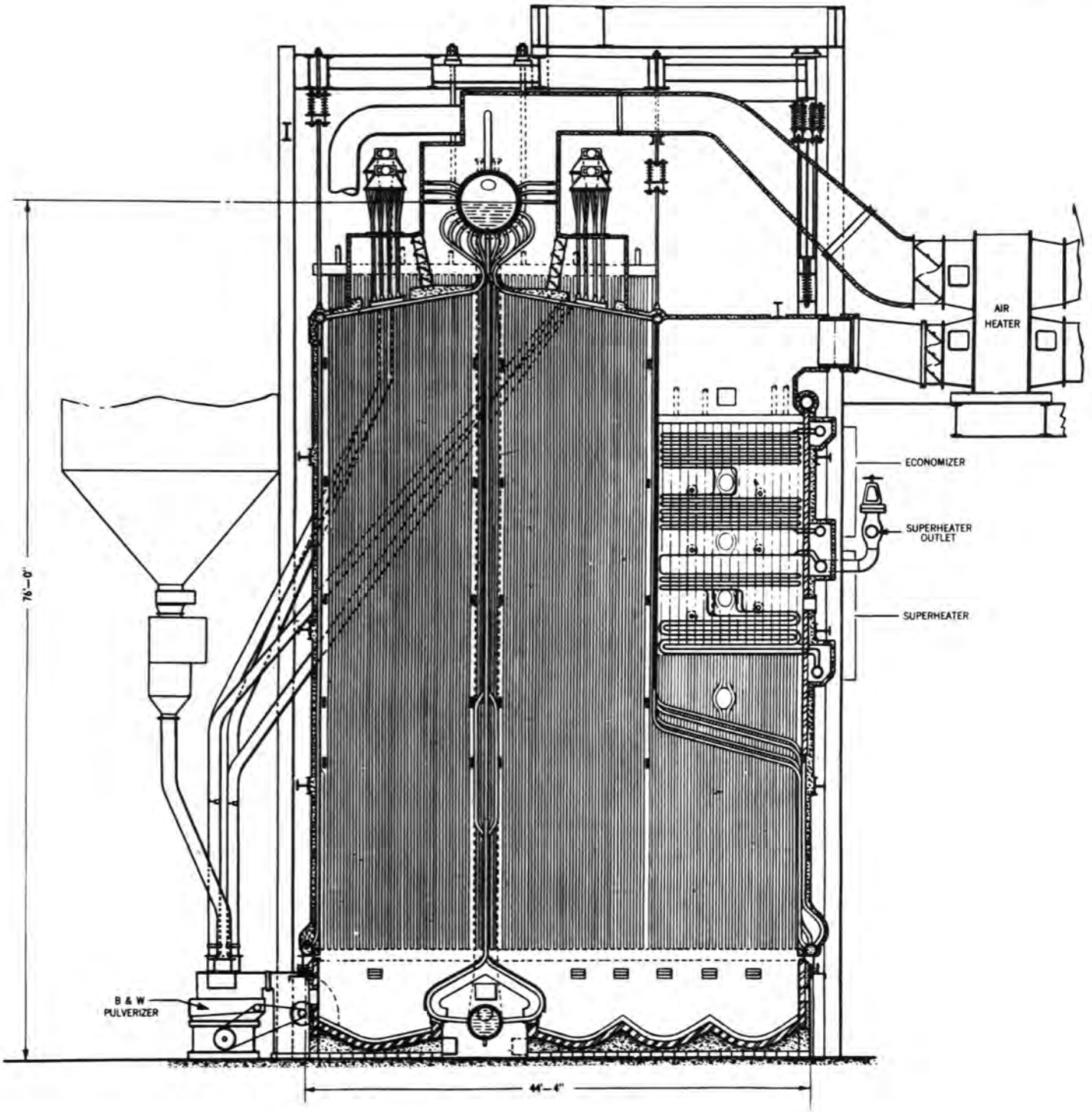
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 350,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 975 Psi. |
| Total Steam Temperature. . . . . | 900 F |
| Furnace Width. . . . . | 17' 8" |




WEST PENN POWER COMPANY
SPRINGDALE STATION, SPRINGDALE, PA.

ONE RADIANT BOILER

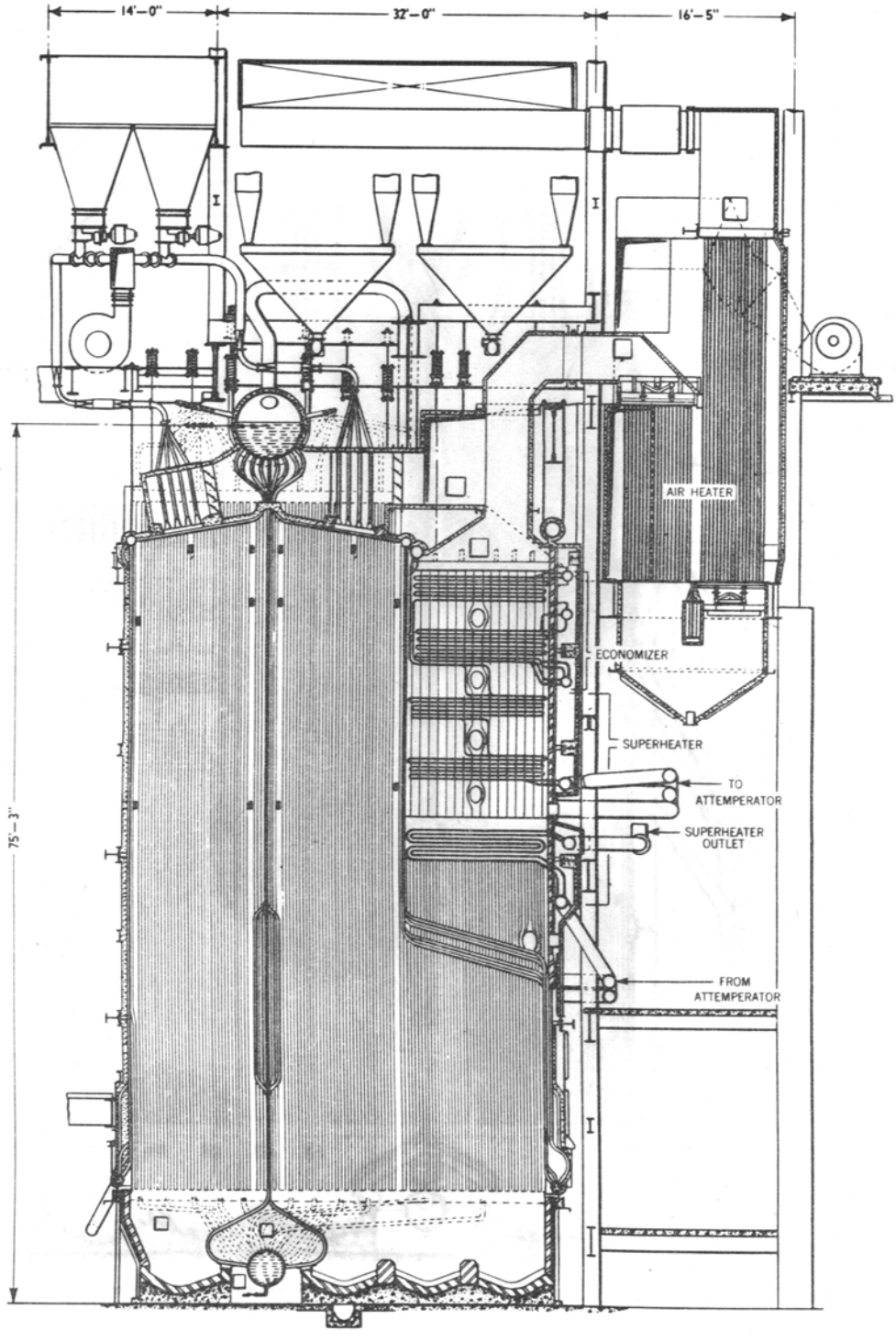
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 800,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1550 Psi |
| Total Steam Temperature. . . . . | 925 F |
| Furnace Width. . . . . | 40' 0" |




DEEPWATER OPERATING CO.
DEEPWATER STATION
PENNS GROVE, N. J.

ONE RADIANT BOILER

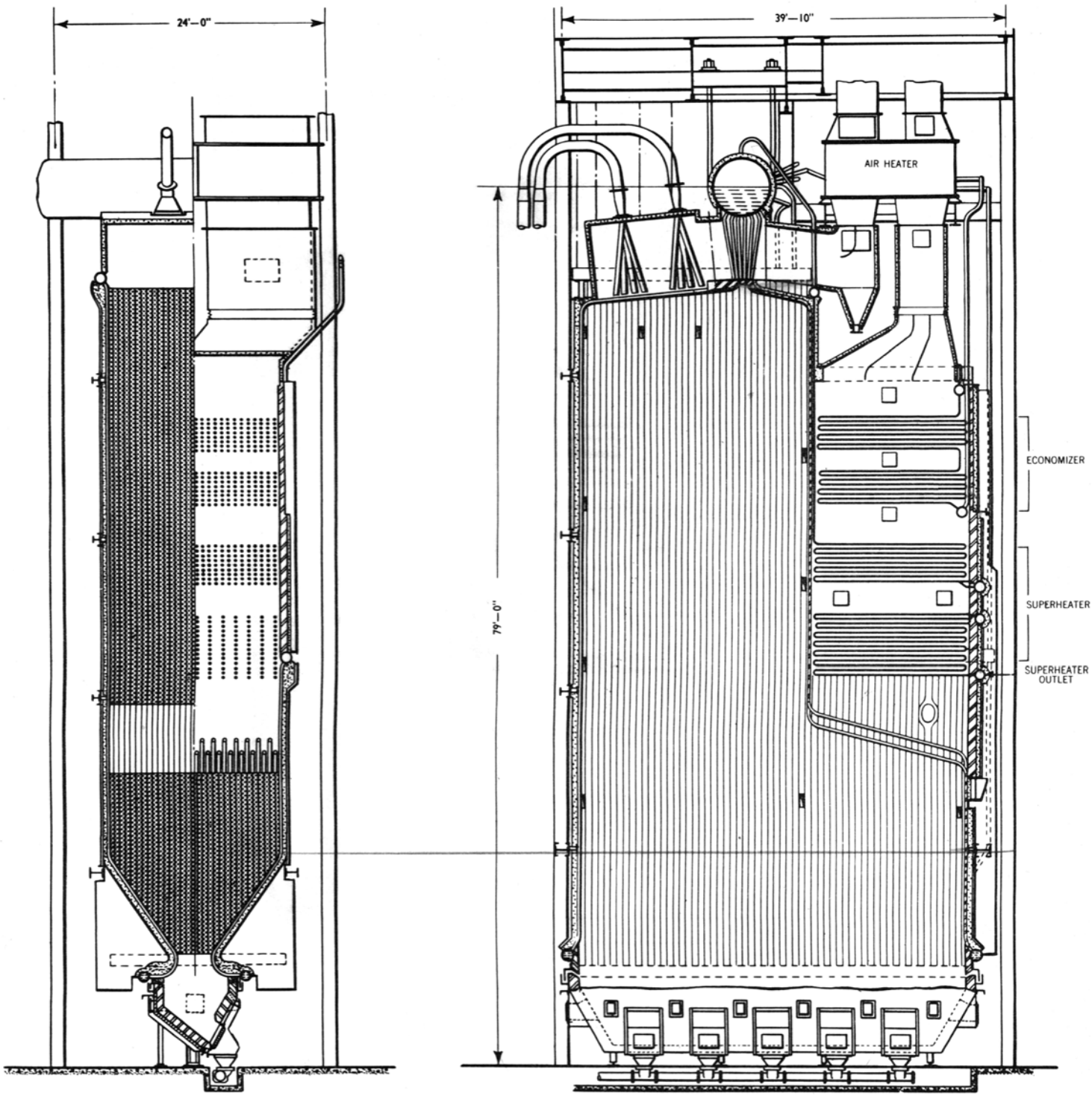
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 550,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1475 Psi |
| Total Steam Temperature. . . . . | 765 F |
| Furnace Width. . . . . | 30' 2-3/4" |




LONG ISLAND LIGHTING CO.
GLENWOOD LANDING, L.I., N. Y.

ONE RADIANT BOILER

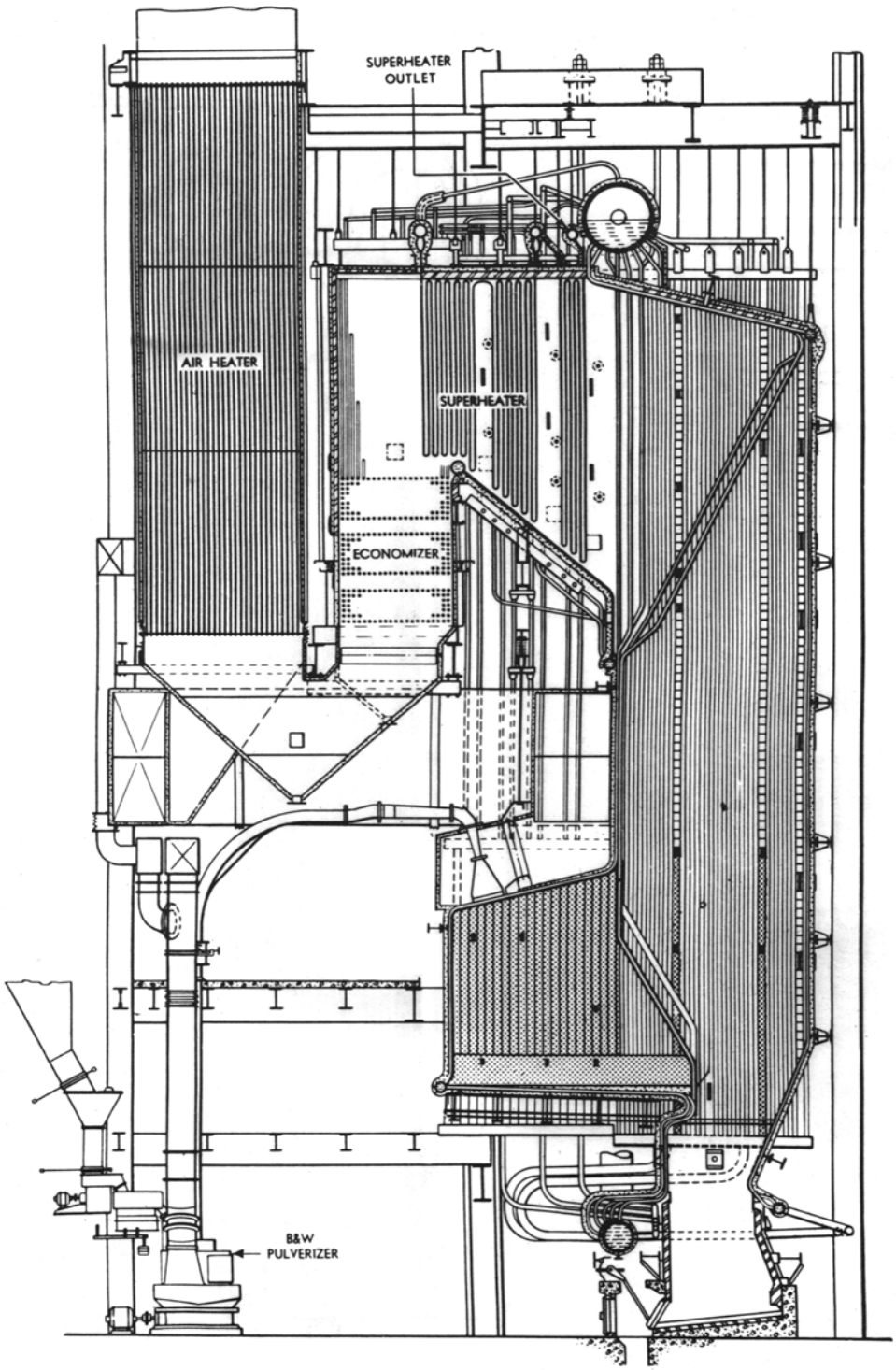
Max. Continuous Capacity . . . . . 500,000 Lb. Steam Per Hr.
Design Pressure. . . . . 525 Psi.
Total Steam Temperature. . . . . 800 F
Furnace Width. . . . . .30' 2-3/4"




CONNECTICUT POWER COMPANY
STAMFORD POWER STATION, STAMFORD, CONN.

ONE RADIANT BOILER

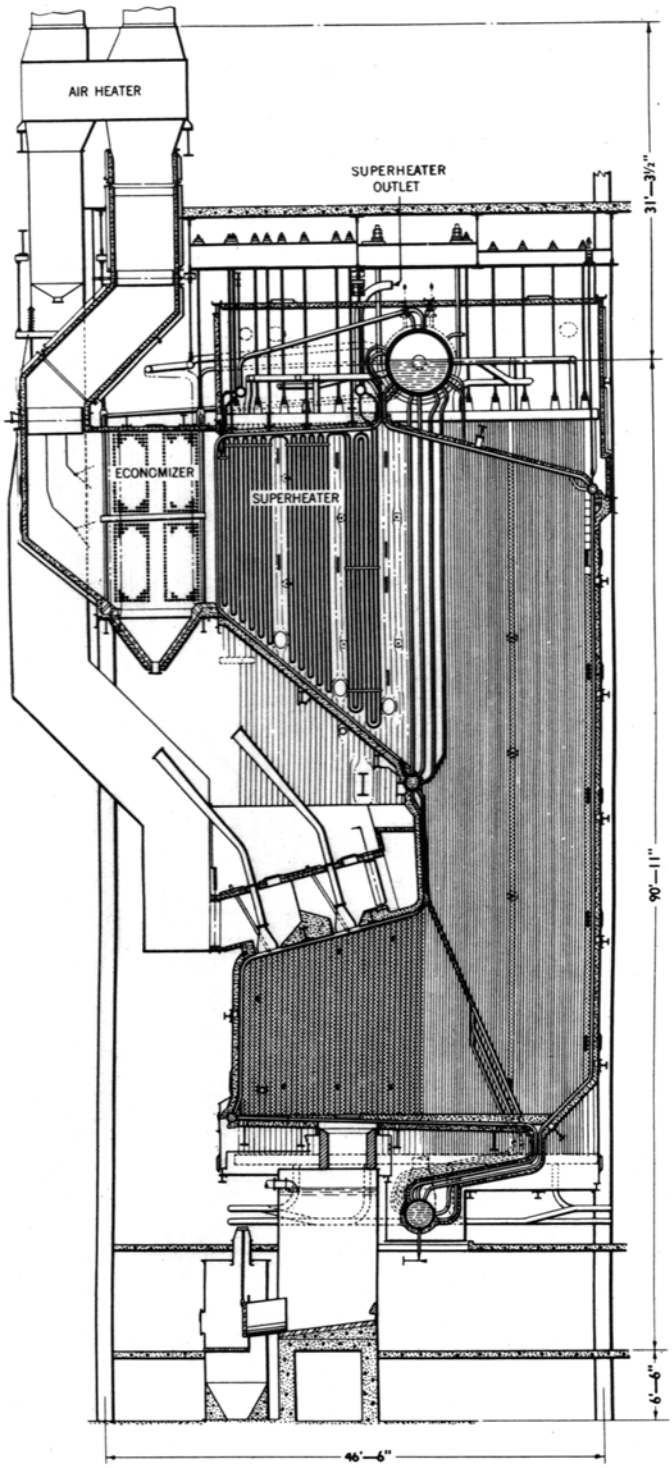
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 250,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 975 Psi |
| Total Steam Temperature. . . . . | 915 F |
| Furnace Width. . . . . | 15' 1-1/4" |




CENTRAL NEW YORK POWER CORPORATION
OSWEGO STEAM STATION, OSWEGO, N. Y.

ONE RADIANT BOILER, SECOND UNIT

| | |
|---|---|
| Max. Continuous Capacity . . . . . | 900,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1500 Psi |
| Total Steam Temperature. . . . . | 903 F |
| Furnace Width. . . . . | 31' 2" |

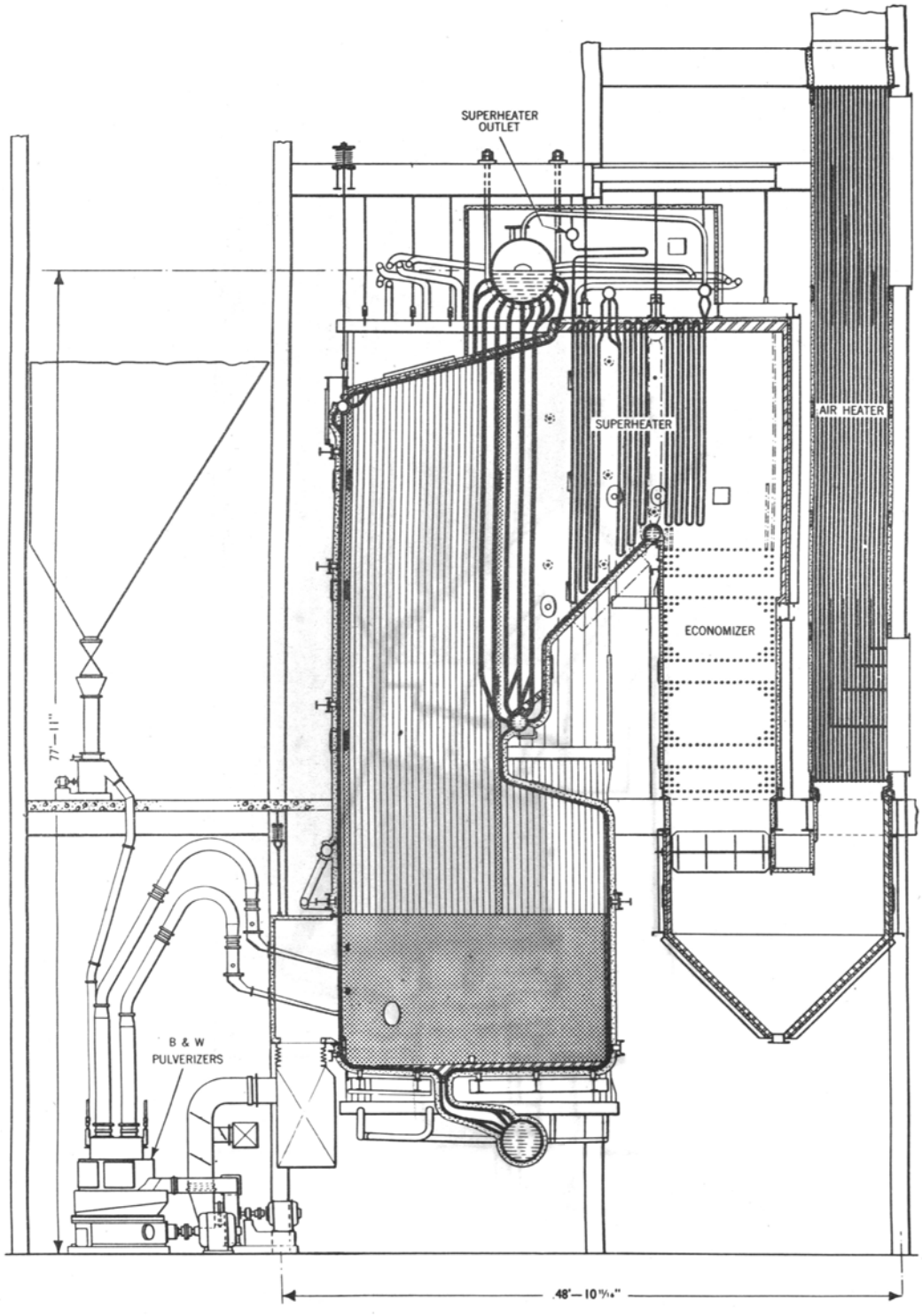



PUBLIC SERVICE ELECTRIC AND GAS COMPANY
BURLINGTON GENERATING STATION, BURLINGTON, N. J.
FOUR RADIANT BOILERS

and

MARION GENERATING STATION, JERSEY CITY, N. J.
TWO RADIANT BOILERS

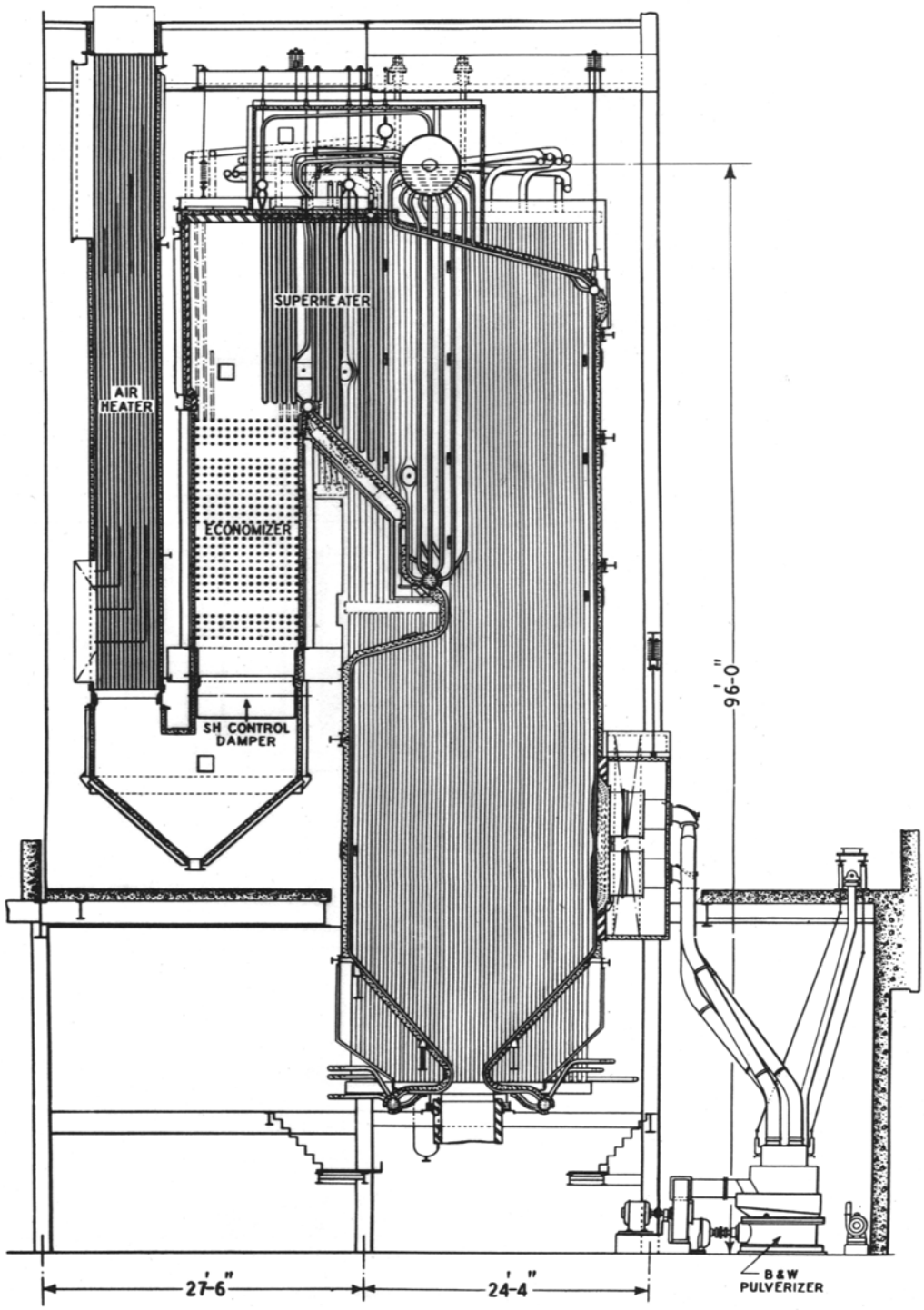
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 550,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1475 Psi |
| Total Steam Temperature. . . . . | 950 F |
| Furnace Width. . . . . | 20' 1" |




OHIO EDISON COMPANY
TORONTO STATION, TORONTO, OHIO

ONE RADIANT BOILER

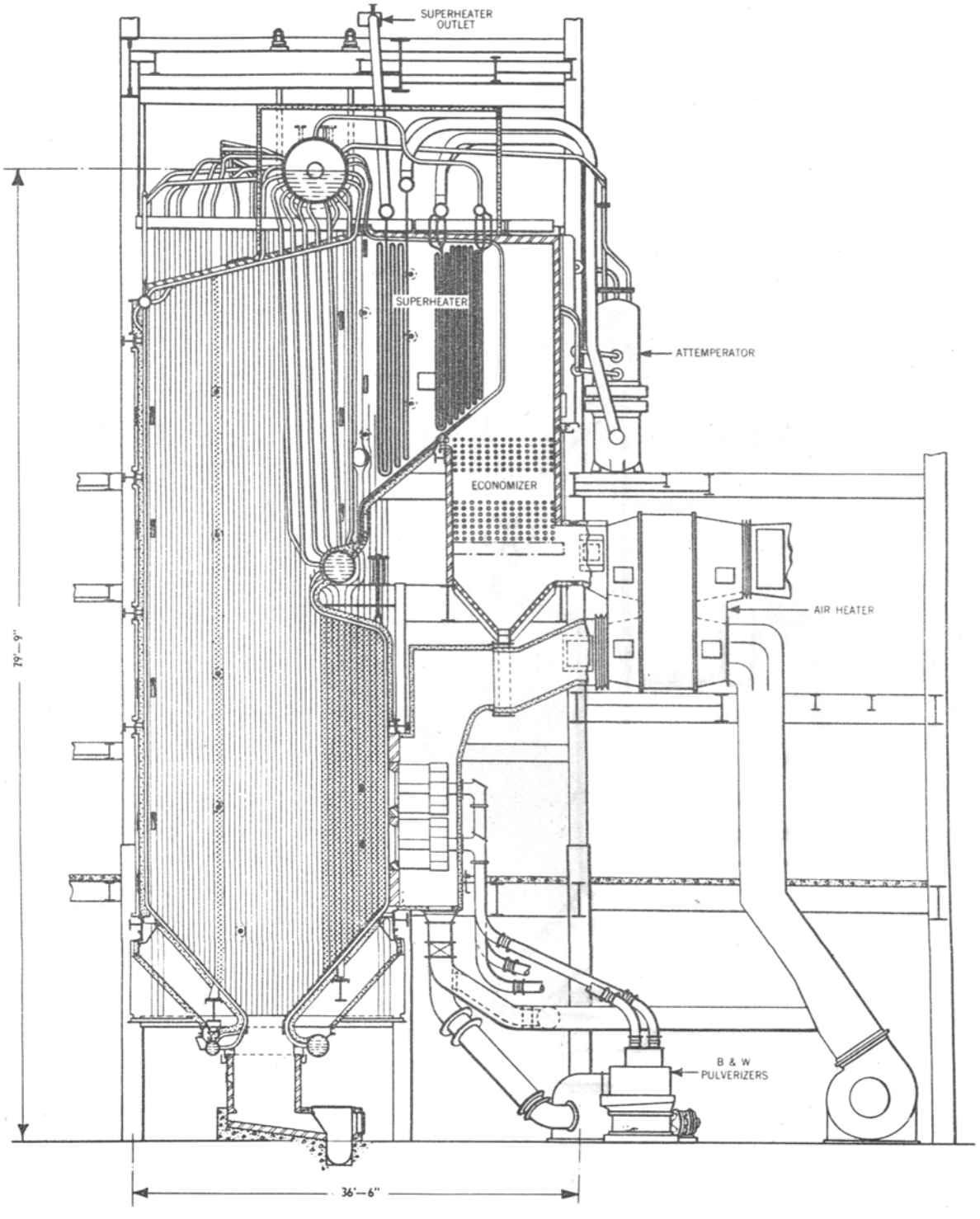
| | |
|---|---|
| Max. Continuous Capacity, . . . . | 400,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 900 Psi |
| Total Steam Temperature. . . . . | 875 F |
| Furnace Width. . . . . | 20' 8" |




OHIO EDISON CO.
GORGE STATION
AKRON, OHIO

ONE RADIANT BOILER

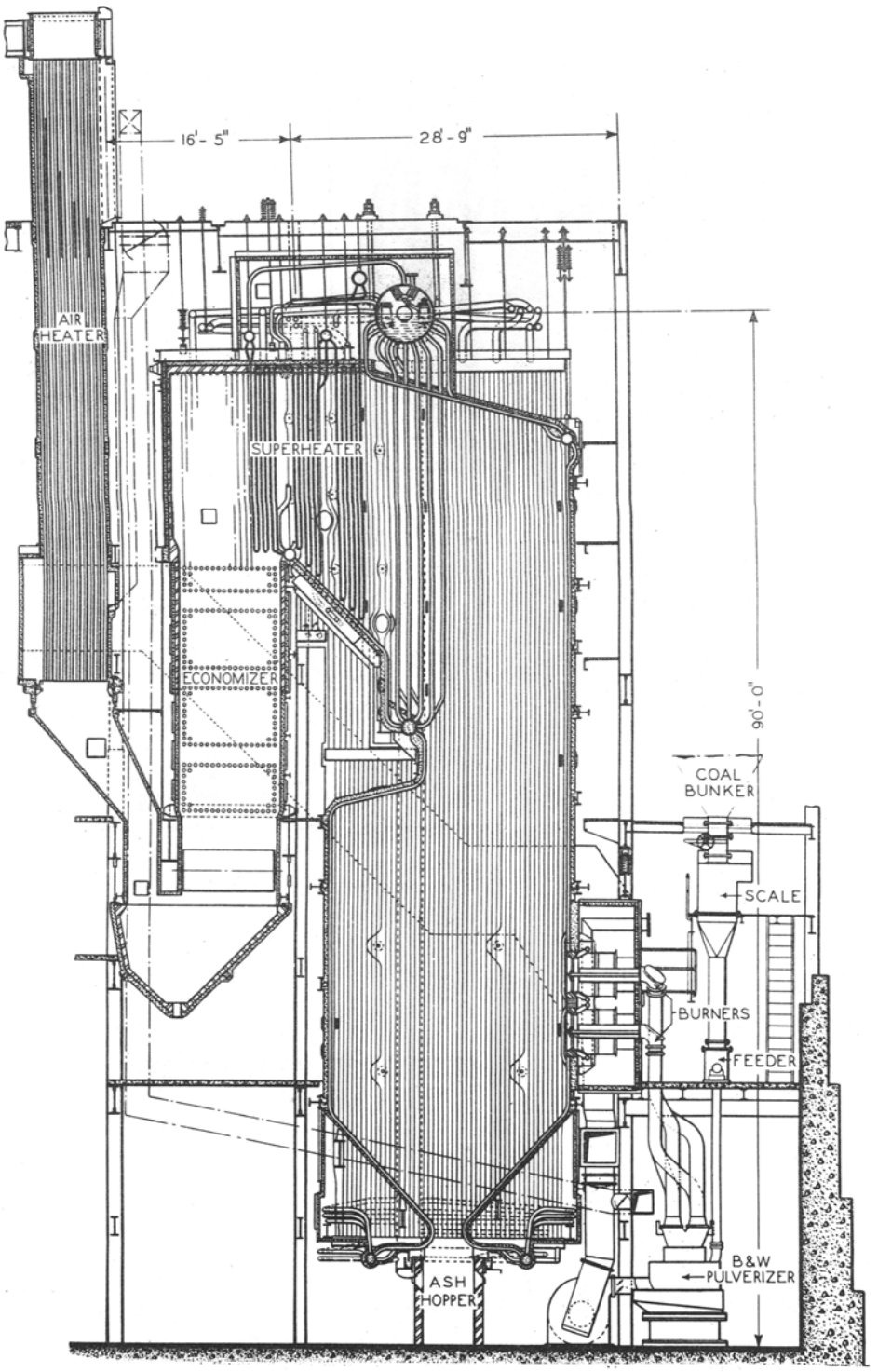
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 450,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 900 Psi |
| Total Steam Temperature. . . . . | 875 F |
| Furnace Width. . . . . | 20' 8" |




CONSOLIDATED GAS, ELECTRIC LIGHT & POWER CO.
BALTIMORE, MARYLAND

ONE RADIANT BOILER - WESTPORT STEAM STATION
TWO RADIANT BOILERS - RIVERSIDE STATION

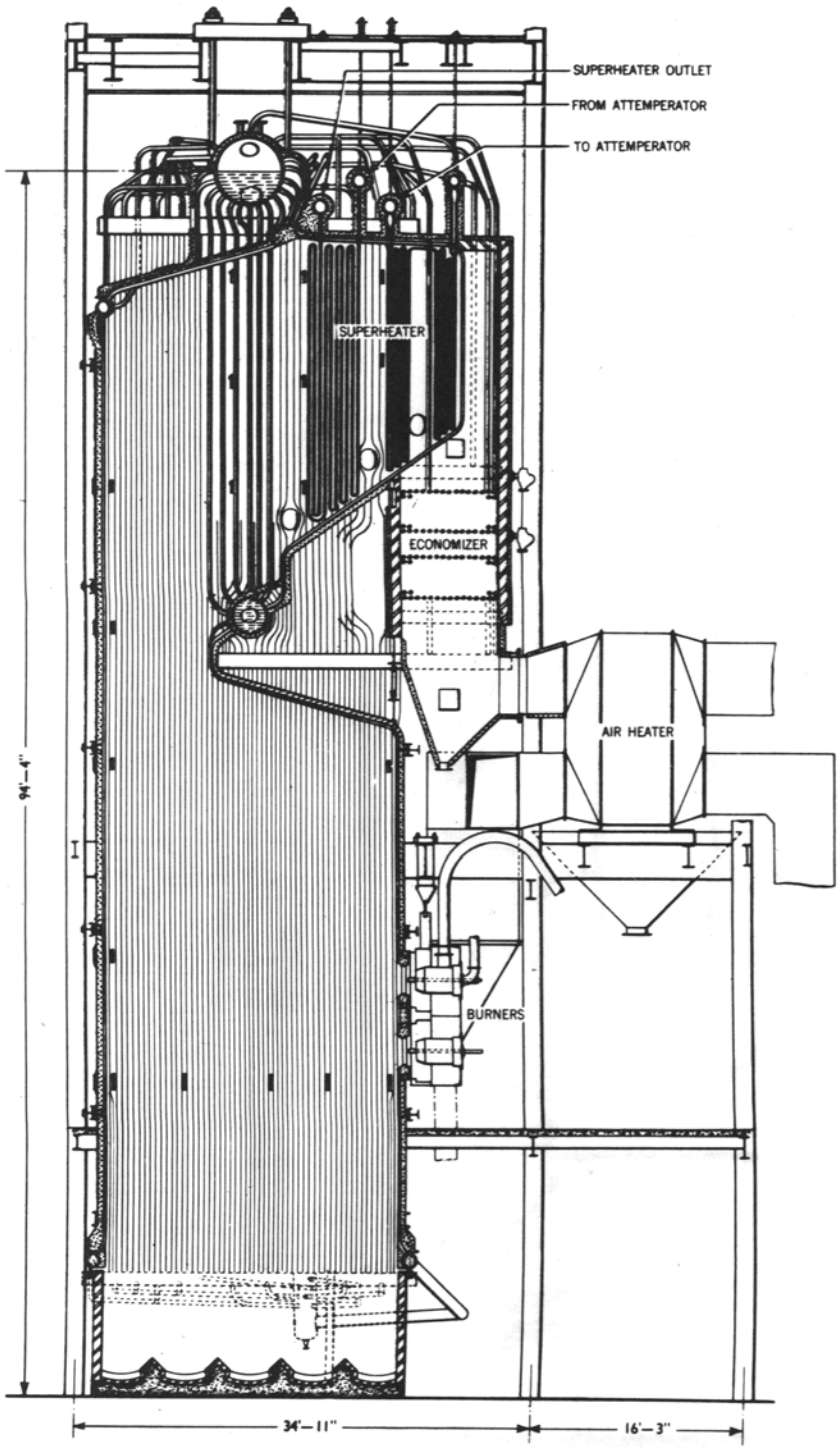
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 550,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1000 Psi |
| Total Steam Temperature. . . . . | 915 F |
| Furnace Width. . . . . | 32' 2" |




GEORGIA POWER CO.
ARKWRIGHT PLANT, ARKWRIGHT, GA.

ONE RADIANT BOILER

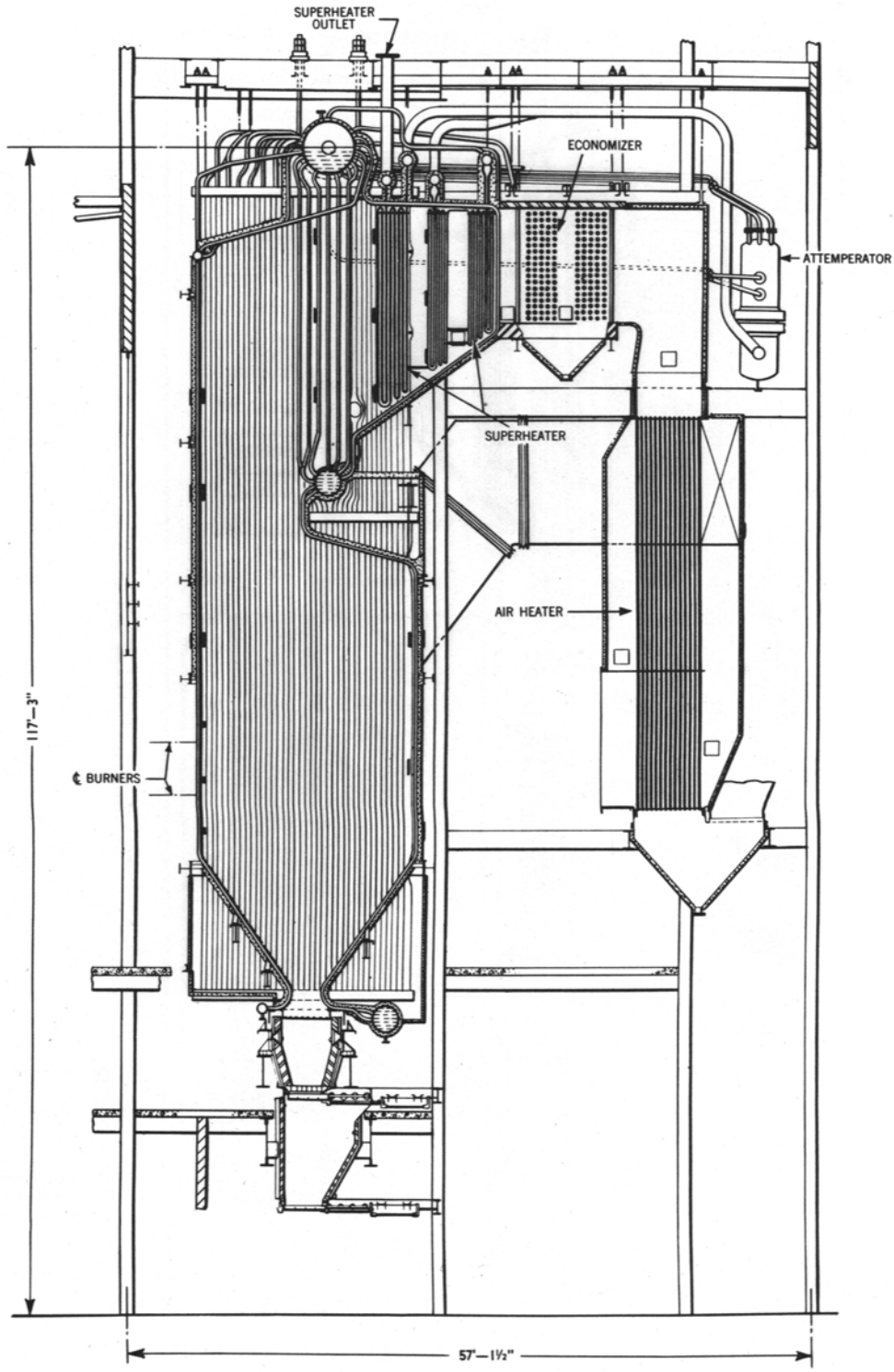
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 400,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 950 Psi |
| Total Steam Temperature. . . . . | 860 F |
| Furnace Width. . . . . | 36' 0" |




WISCONSIN PUBLIC SERVICE CORP.
BAYSIDE STATION, GREEN BAY, WISC.

TWO RADIANT BOILERS

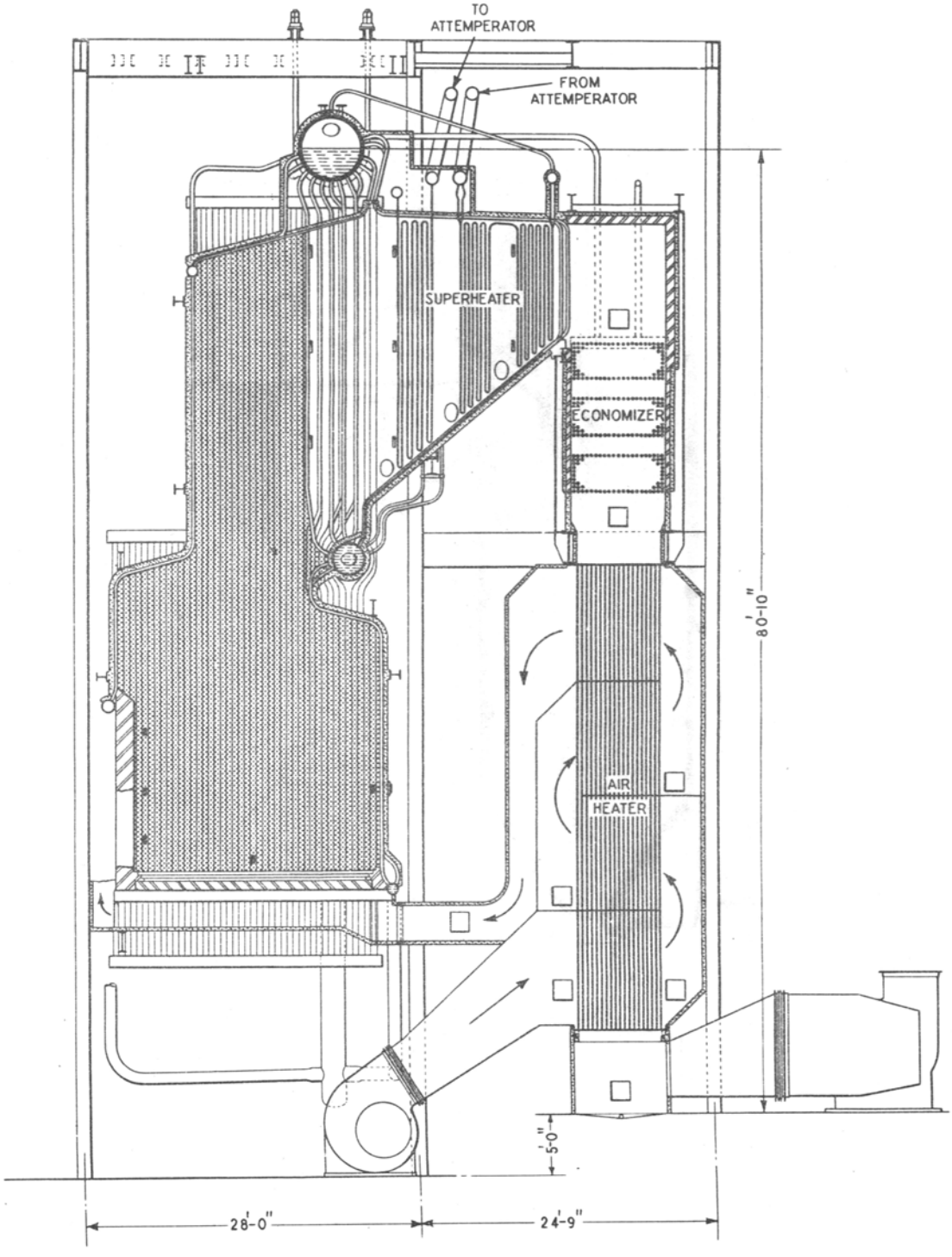
| | |
|---|---|
| Max. Continuous Capacity, Each. . . | 312,500 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 775 Psi |
| Total Steam Temperature . . . . . | 900 F |
| Furnace Width. . . . . | 18' 2-3/8" |




NORTHERN STATES POWER COMPANY
HIGH BRIDGE STATION, ST. PAUL, MINN.

TWO RADIANT BOILERS

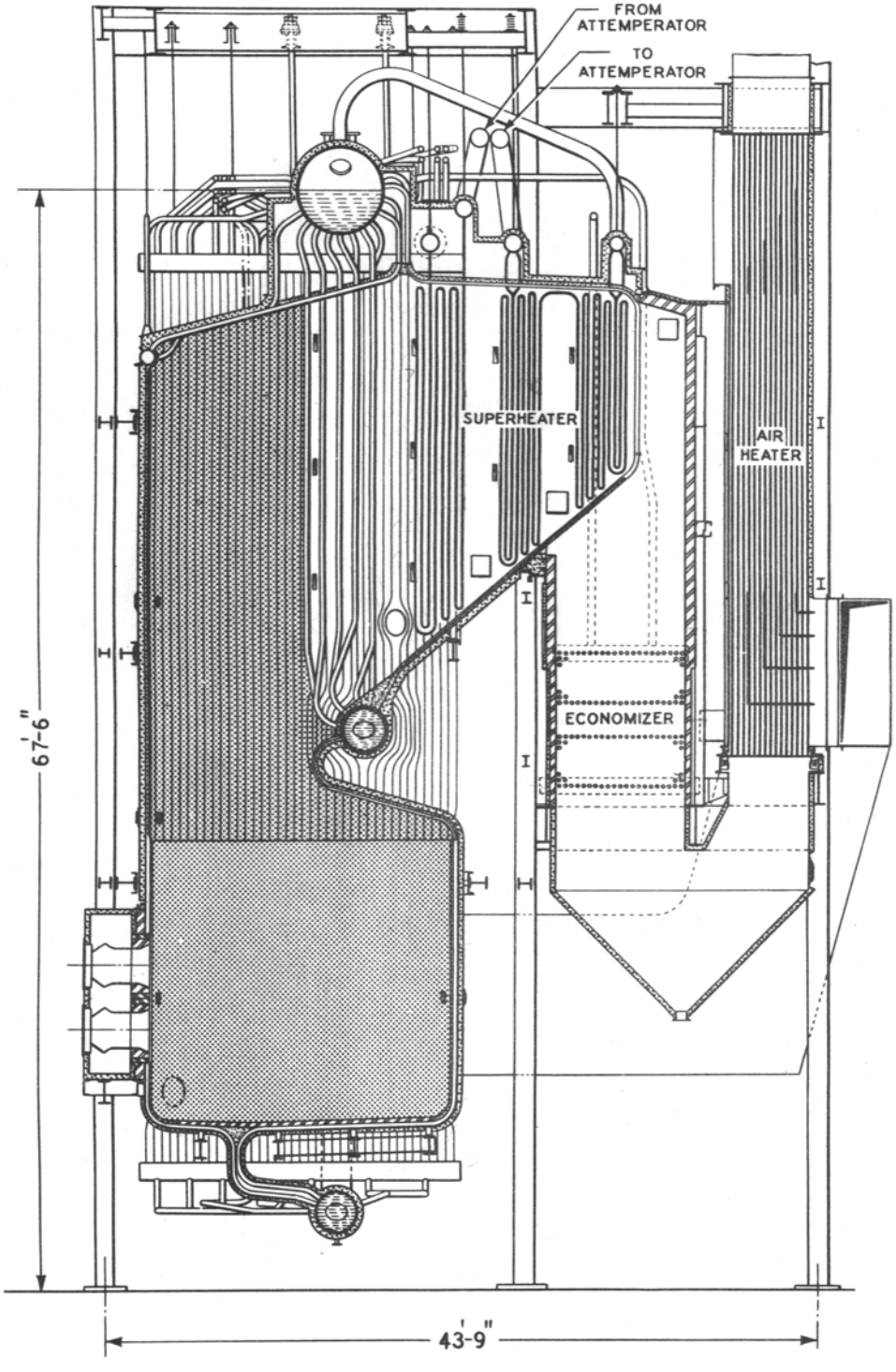
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 450,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1000 Psi |
| Total Steam Temperature. . . . . | 900 F |
| Furnace Width. . . . . | 30' 2" |




CITY PUBLIC SERVICE BOARD
SAN ANTONIO PUBLIC SERVICE CO.
STATION B, SAN ANTONIO, TEXAS

ONE RADIANT BOILER

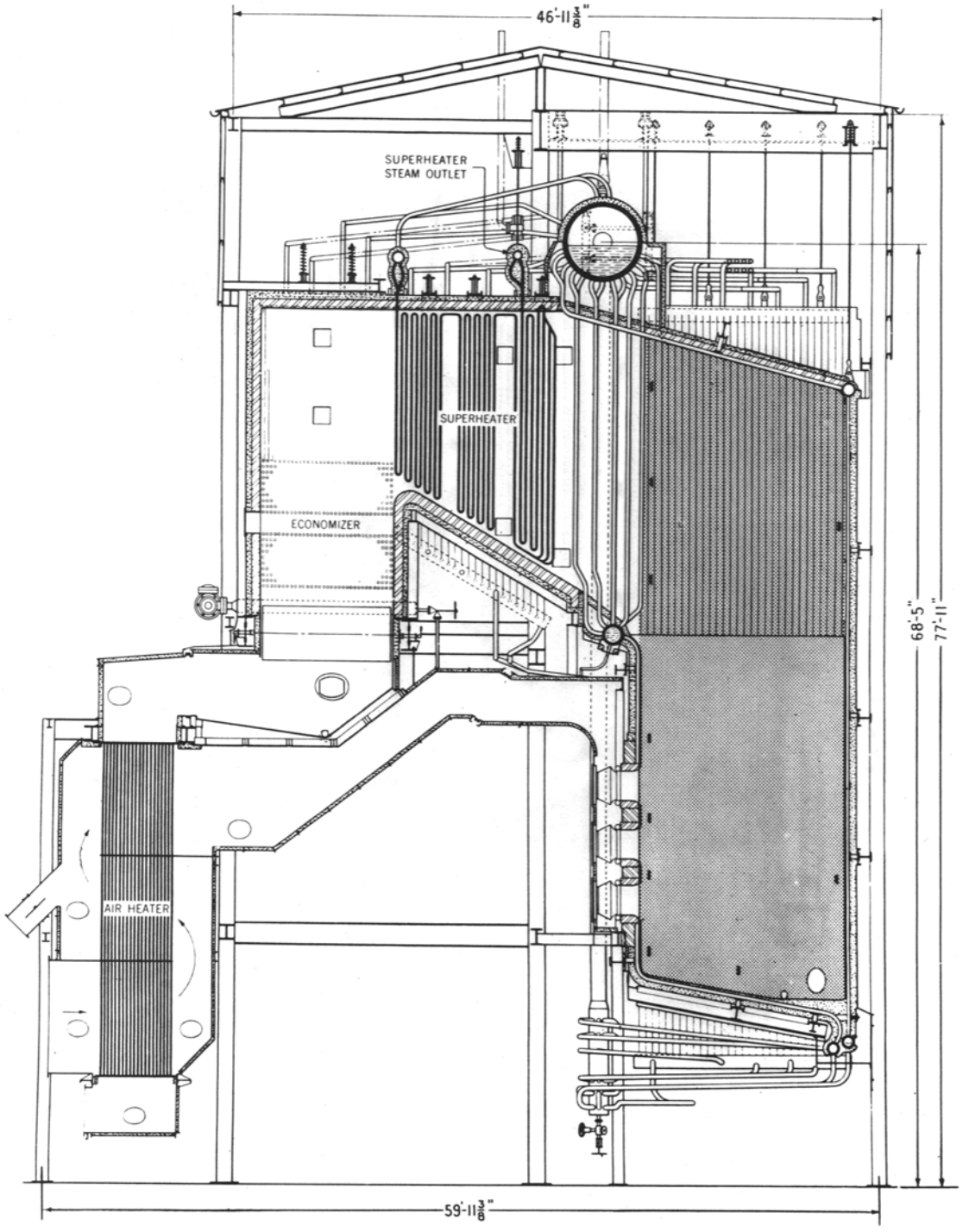
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 275,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1500 Psi |
| Total Steam Temperature. . . . . | 900 F |
| Furnace Width. . . . . | 17' 9" |




HAWAIIAN ELECTRIC CO.
HONOLULU, T. H.

ONE RADIANT BOILER

| | |
|---|---|
| Max. Continuous Capacity . . . . . | 390,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 800 Psi |
| Total Steam Temperature. . . . . | 905 F |
| Furnace Width. . . . . | 21' 5" |

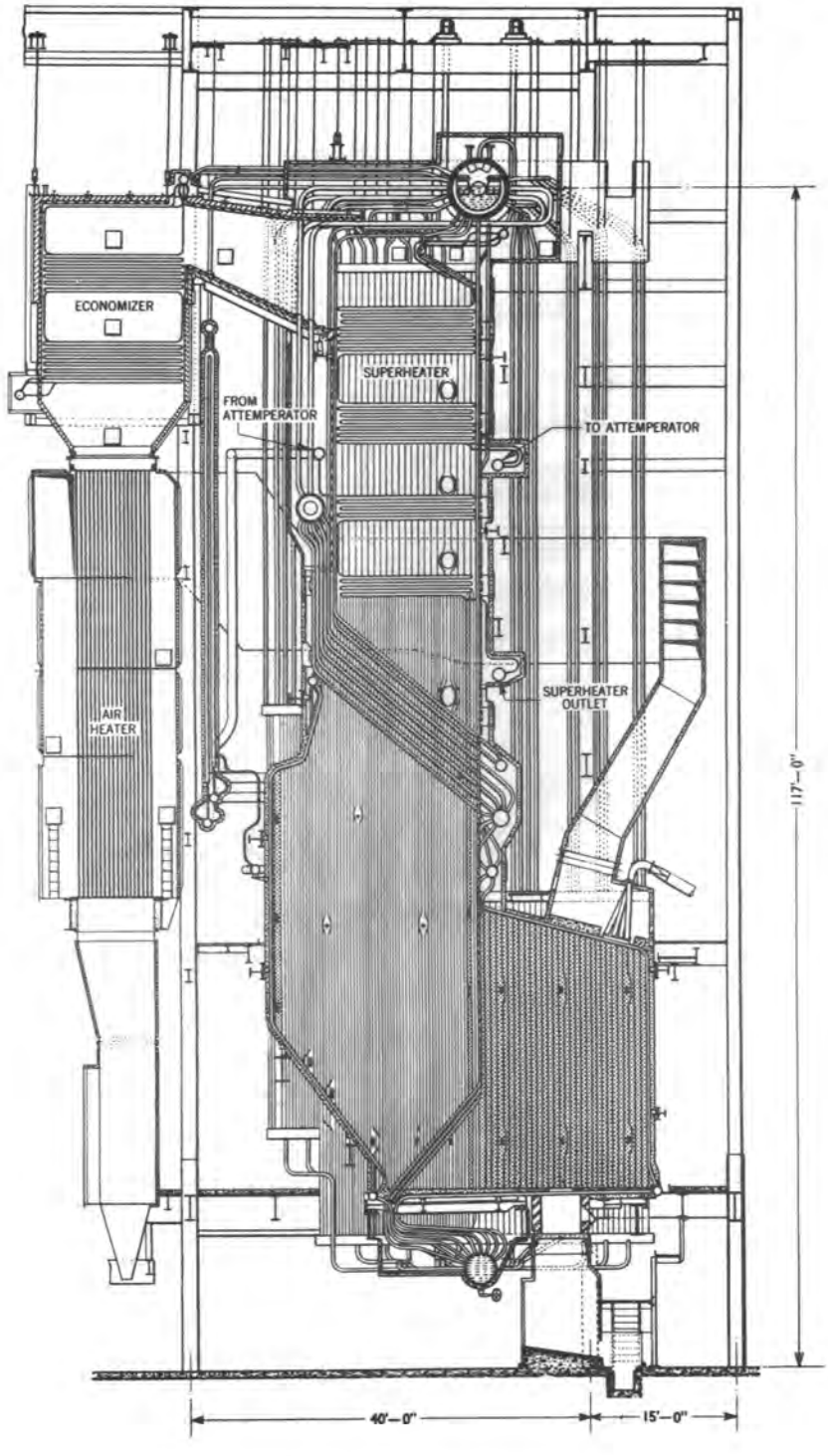



PACIFIC GAS & ELECTRIC CO.
OLEUM STEAM STATION
OLEUM, CALIF.

THREE RADIANT BOILERS

(NINE SIMILAR BOILERS ARE IN SERVICE IN AVON,
OLEUM, AND MARTINEZ STATIONS)

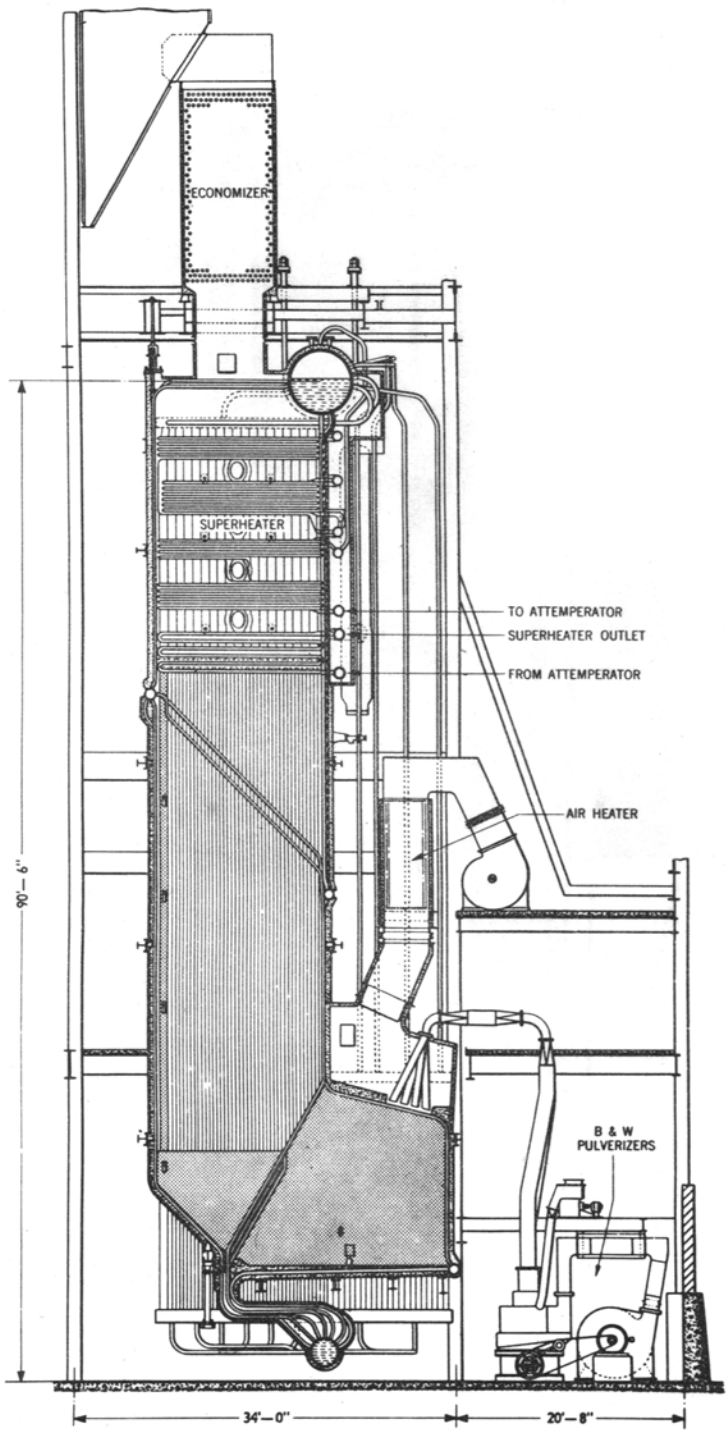
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 200,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1525 Psi |
| Total Steam Temperature. . . . . | 950 F |
| Furnace Width. . . . . | 11' 10" |




COMMONWEALTH EDISON CO.
FISK STREET PLANT
CHICAGO, ILL.

TWO HIGH-HEAD BOILERS

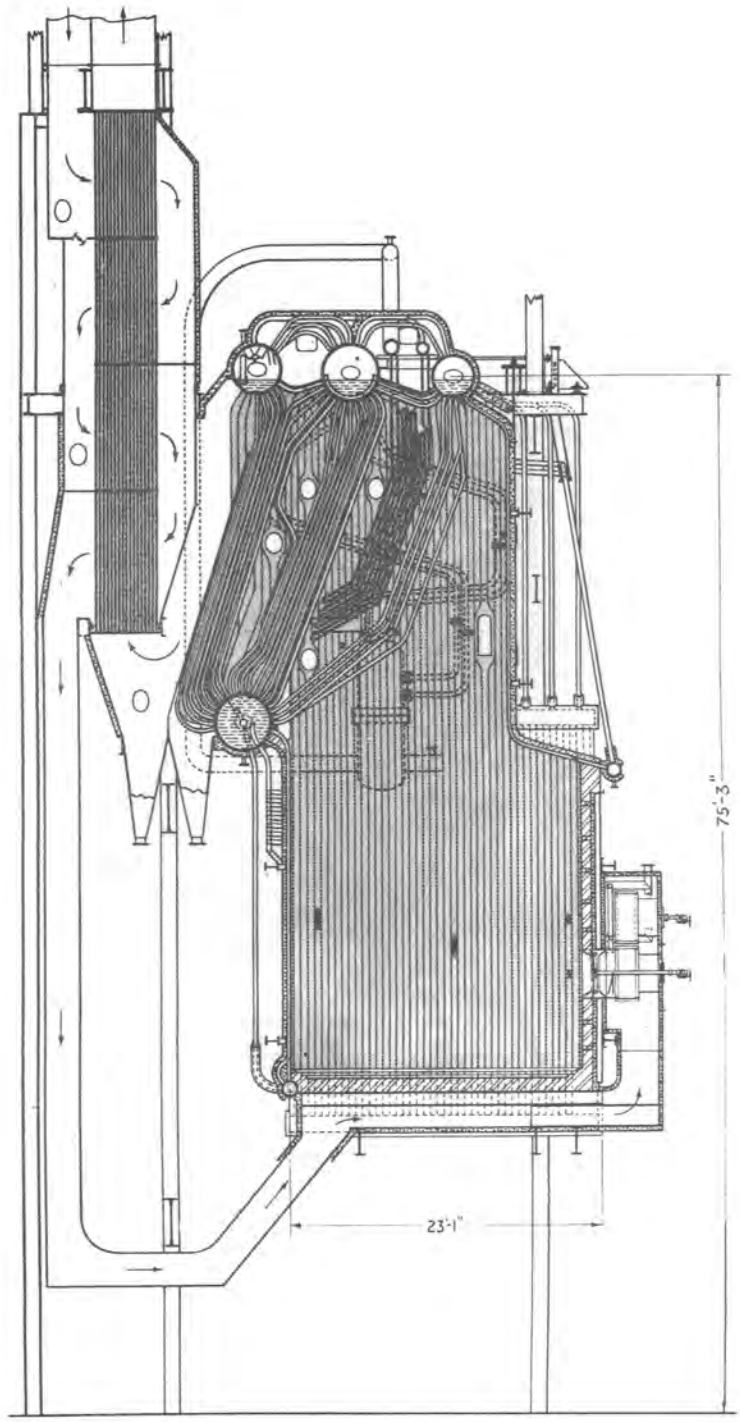
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 750,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1450 Psi |
| Total Steam Temperature. . . . . | 935 F |
| Furnace Width. . . . . | 37' 8" |




CITY OF LANSING
OTTAWA ST. STATION
LANSING, MICHIGAN

ONE HIGH-HEAD BOILER

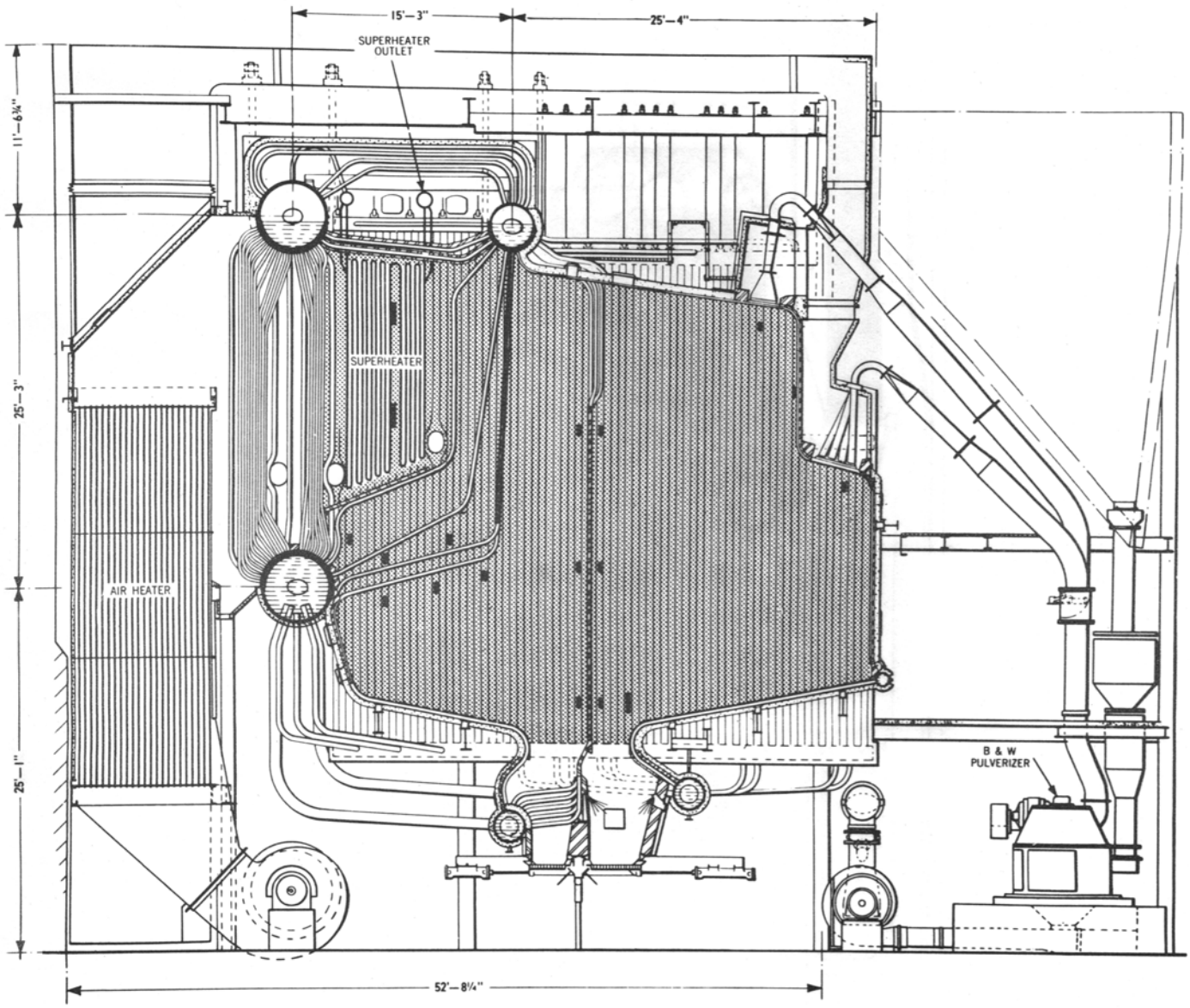
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 275,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 950 Psi |
| Total Steam Temperature. . . . . | 900 F |
| Furnace Width. . . . . | 16' 8" |




CITY PUBLIC SERVICE BOARD
COMAL STATION, SAN ANTONIO, TEXAS

ONE STIRLING BOILER

| | |
|---|---|
| Max. Continuous Capacity . . . . . | 375,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 500 Psi |
| Total Steam Temperature. . . . . | 725 F |
| Furnace Width. . . . . | 28' 8-3/4" |



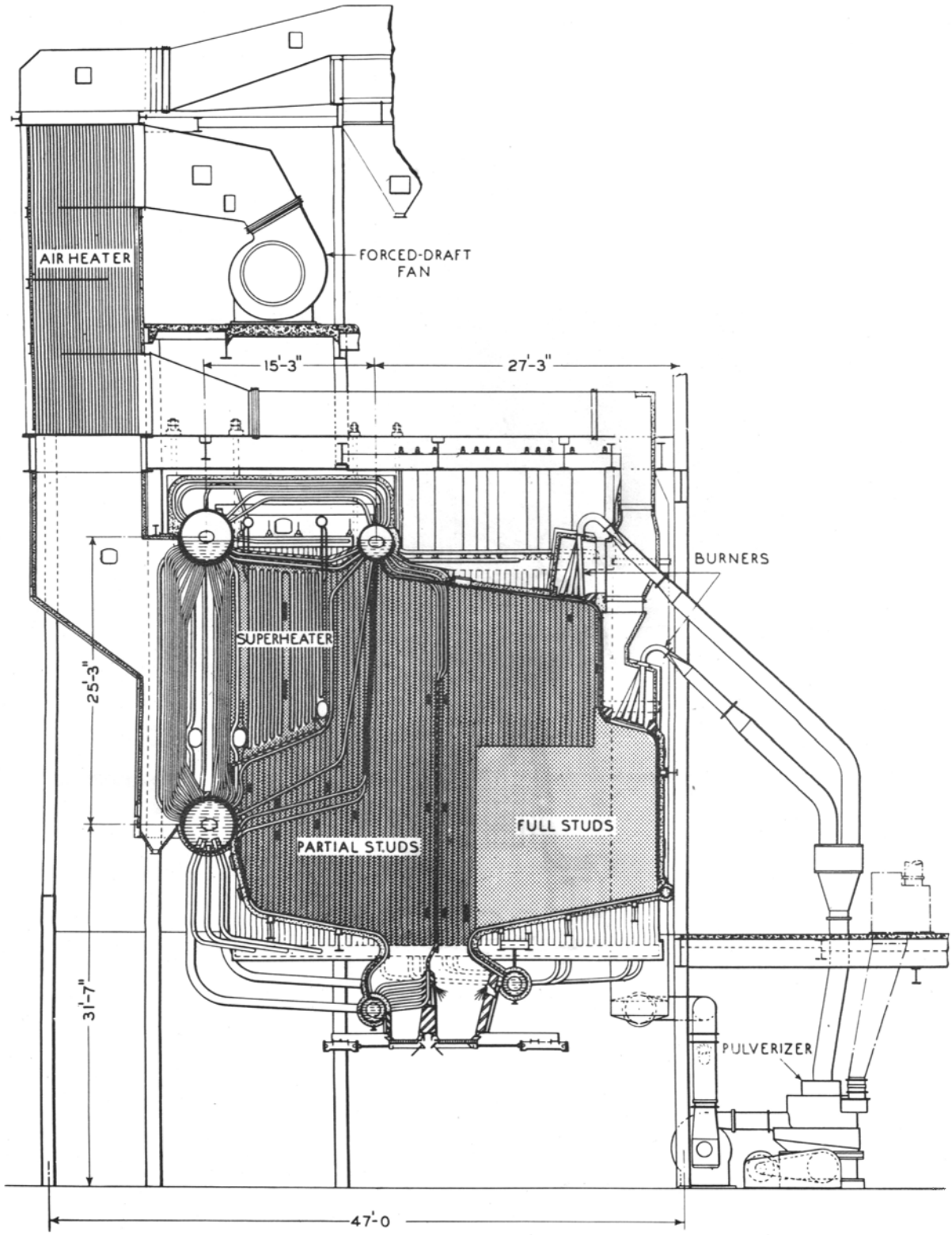

OHIO PUBLIC SERVICE COMPANY
MAHONINGSIDE STATION, WARREN, OHIO

ONE SPECIAL STIRLING BOILER

| | |
|---|---|
| Max. Continuous Capacity | 350,000 Lb. Steam Per Hr. |
| Design Pressure | 900 Psi |
| Total Steam Temperature | 825 F |
| Furnace Width | 23' 2" |

Two Similar Boilers in Service at Toledo Edison Co., Acme Station

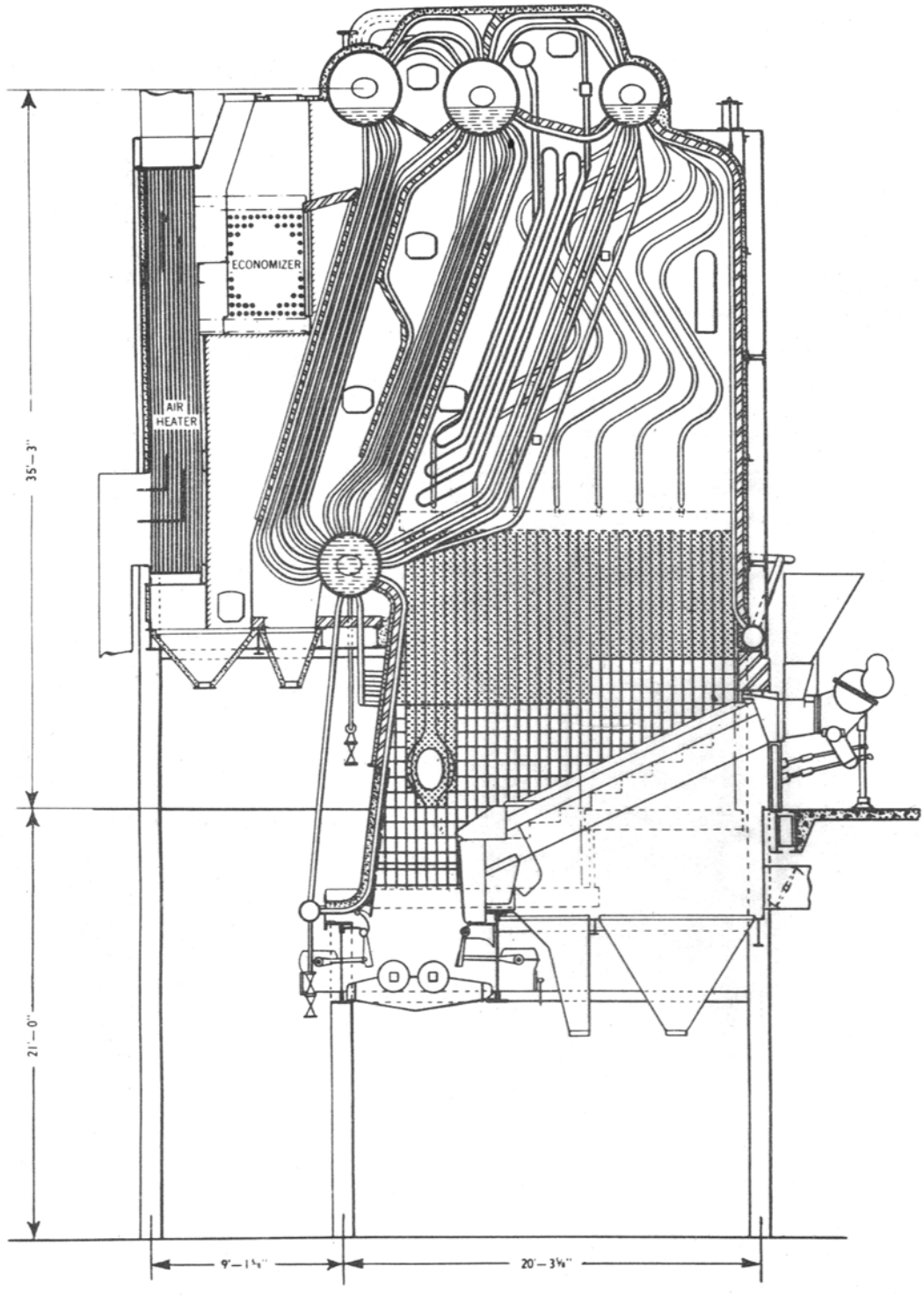
Two Similar Boilers in Service at Public Service Co. of Colo., Valmont Station




OHIO PUBLIC SERVICE CO.
R.E. BURGER STATION, DILLES BOTTOM, OHIO

FOUR SPECIAL STIRLING BOILERS

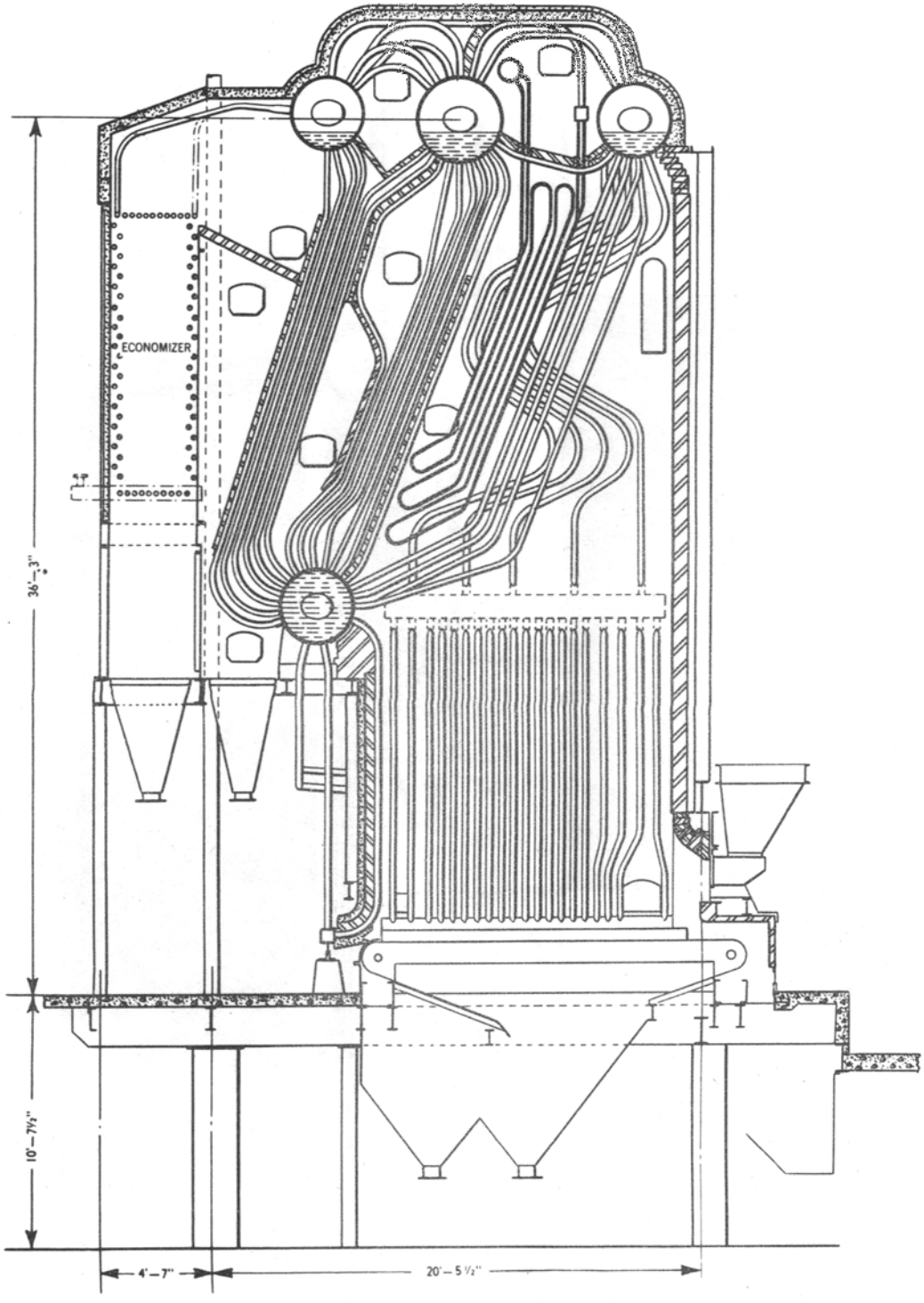
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 350,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 925 Psi |
| Total Steam Temperature. . . . . | 900 F |
| Furnace Width. . . . . | 23' 5-1/4" |




CITY OF FORT WAYNE, IND.
MUNICIPAL POWER PLANT

TWO STIRLING BOILERS

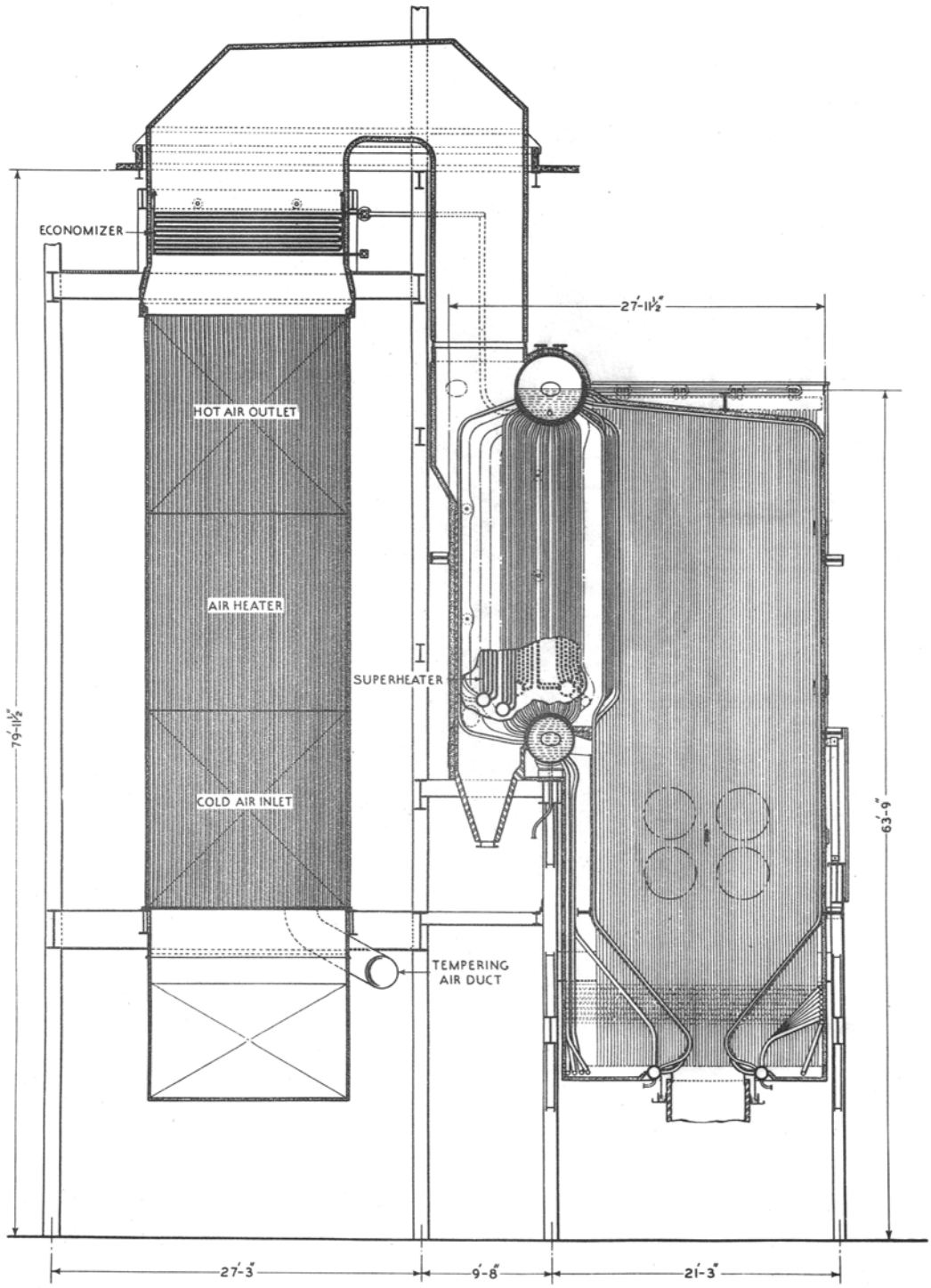
| | |
|---|---|
| Max. Continuous Capacity, Each . . | 125,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 425 Psi |
| Total Steam Temperature. . . . . | 700 F |
| Furnace Width. . . . . | 15' 10" |




IOWA PUBLIC SERVICE CO.
CHARLES CITY, IOWA

ONE STIRLING BOILER

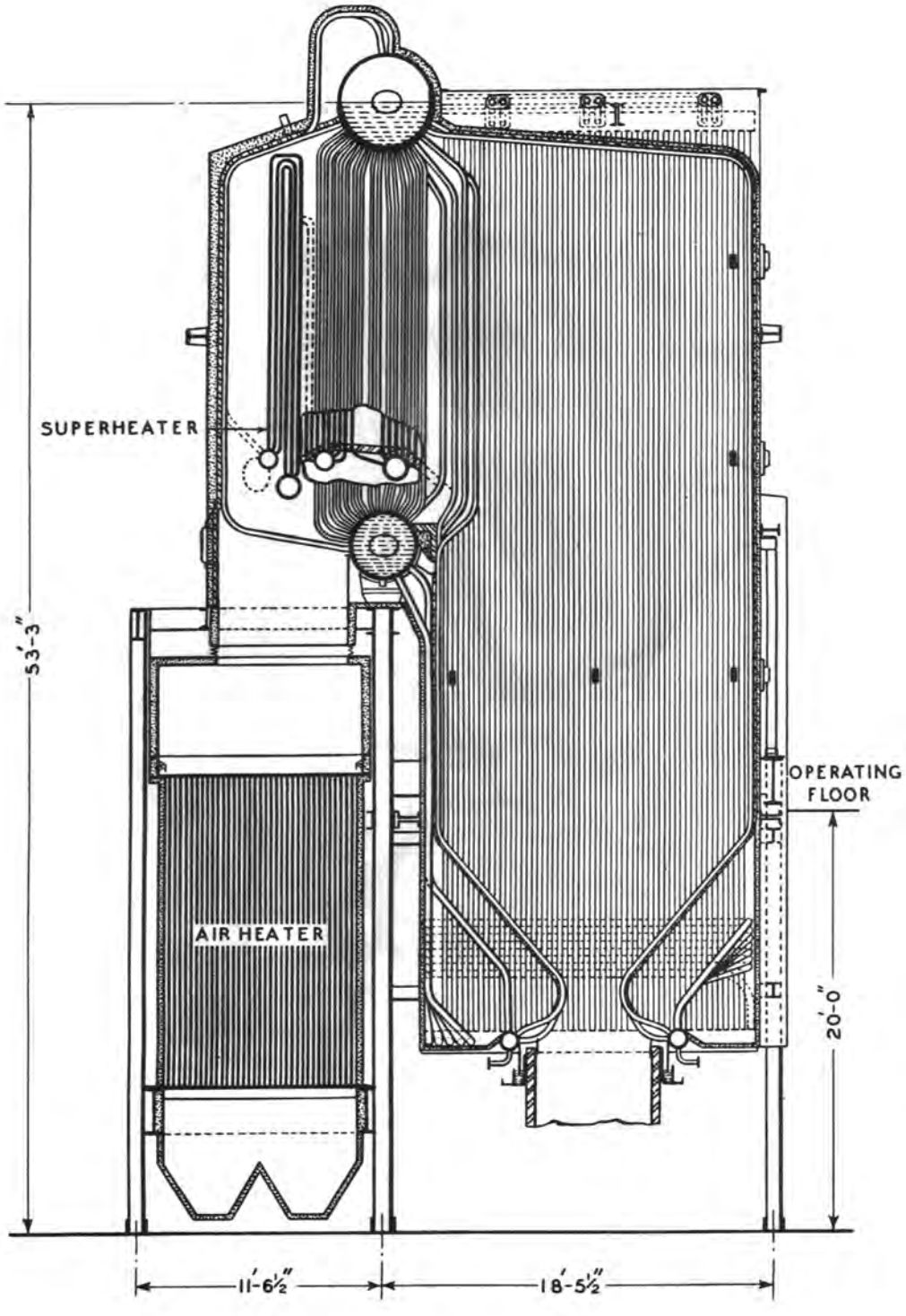
| | |
|---|---|
| Max. Continuous Capacity . . . . . | 50,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 450 Psi |
| Total Steam Temperature. . . . . | 700 F |
| Furnace Width. . . . . | 10' 6" |




WISCONSIN POWER & LIGHT CO.
BELOIT STATION
MADISON, WISCONSIN

ONE TYPE FH INTEGRAL-FURNACE BOILER

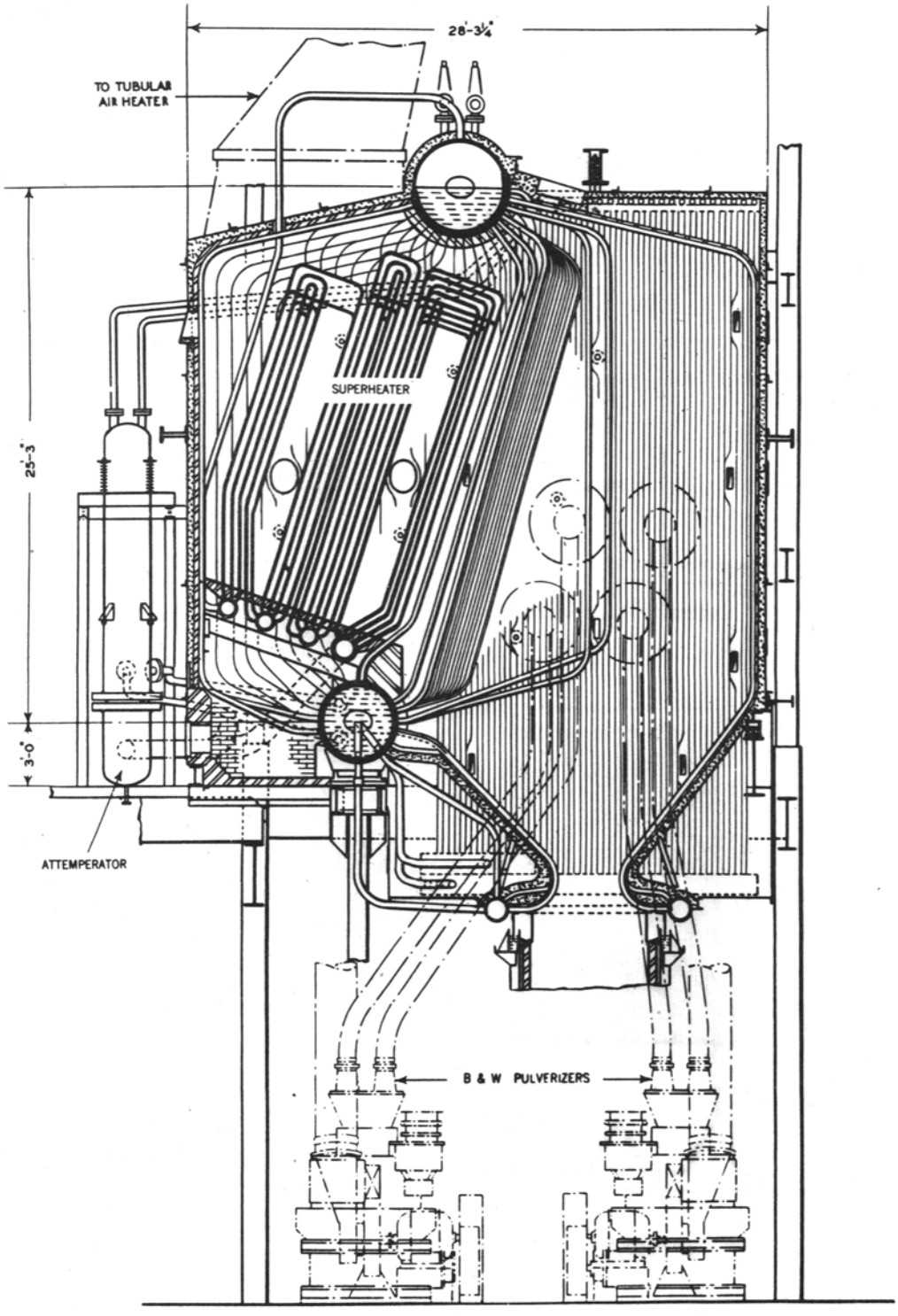
| | |
|---|---|
| Max. Continuous Capacity. . . . . | 275,000 Lb. Steam Per. Hr. |
| Design Pressure . . . . . | 1000 Psi |
| Total Steam Temperature . . . . . | 910 F |




INTERSTATE POWER CO.
BEAVER CHANNEL STATION
DUBUQUE, IOWA

ONE TYPE FH INTEGRAL-FURNACE BOILER

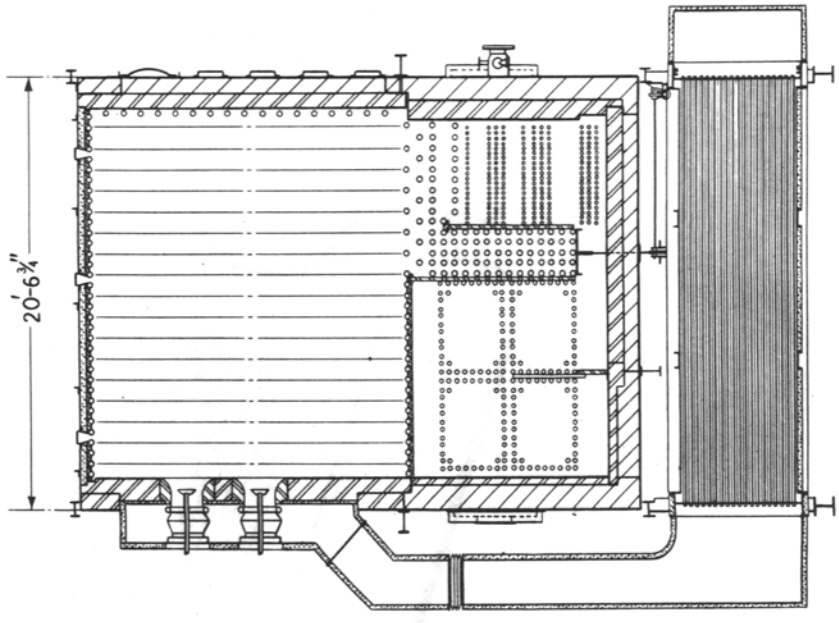
Max. Continuous Capacity. . . . . .175,000 Lb. Steam Per. Hr.
Design Pressure . . . . . 725 Psi
Total Steam Temperature . . . . . 835 F

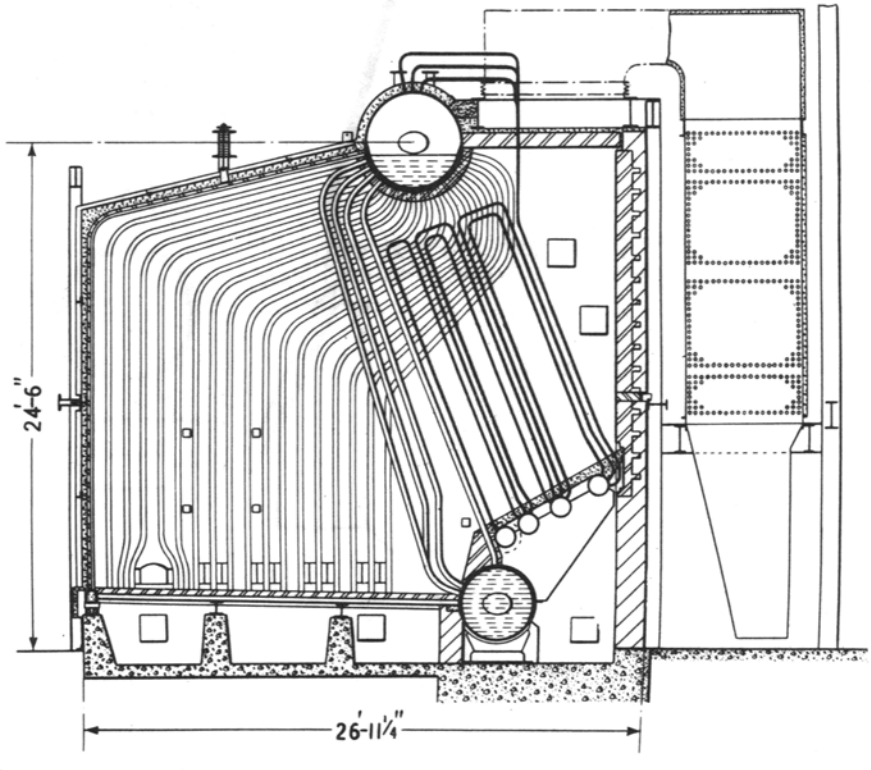



VIRGINIA PUBLIC SERVICE CO.
HAMPTON, VIRGINIA

ONE INTEGRAL-FURNACE BOILER

| | |
|---|---|
| Max. Continuous Capacity . . . . . | 200,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 1000 Psi |
| Total Steam Temperature. . . . . | 830 F |

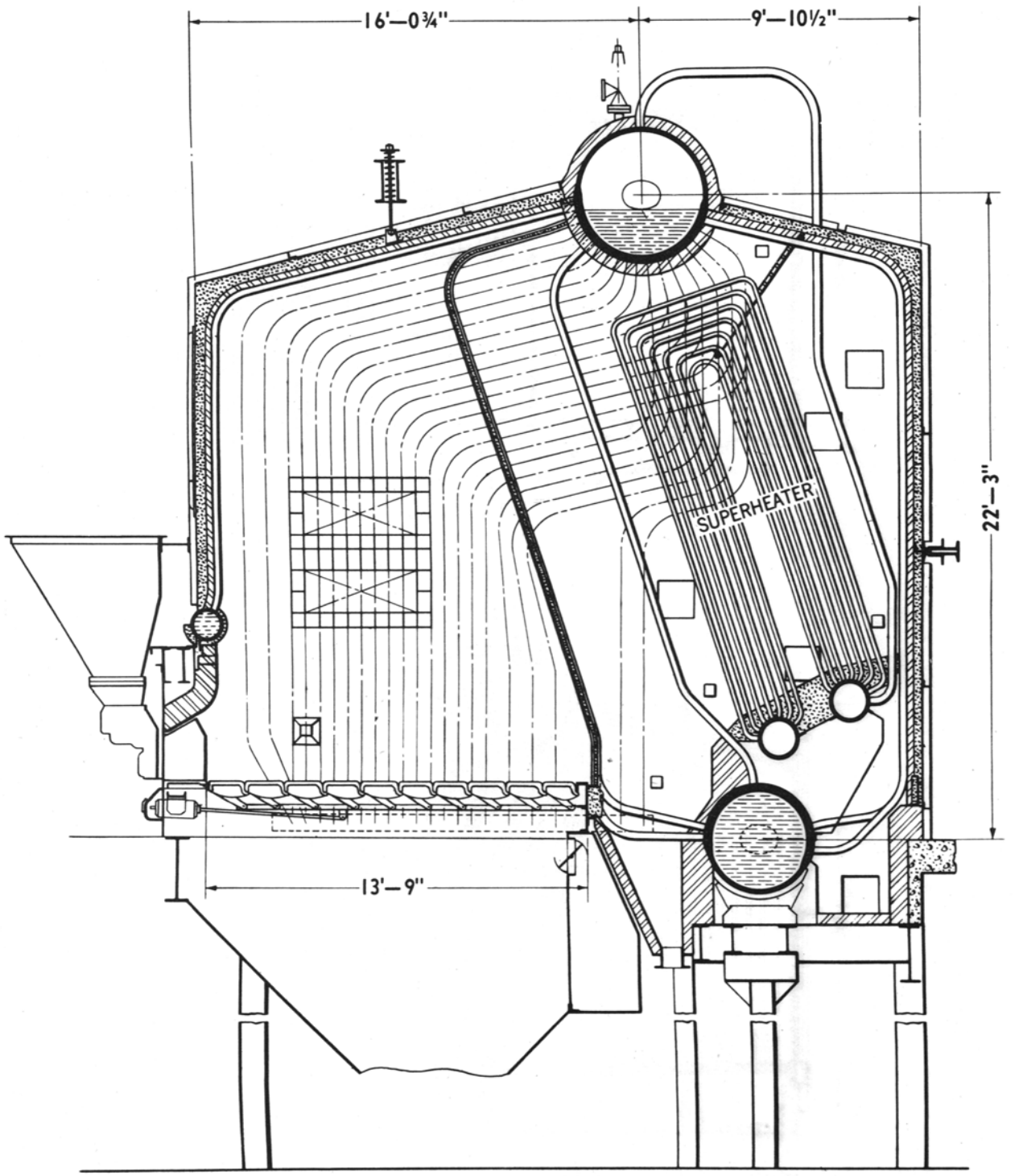



CITY OF BURBANK
BURBANK, CALIF.

THREE INTEGRAL-FURNACE BOILERS

Max. Continuous Capacity, Each . . 120,000 Lb. Steam Per Hr.
Design Pressure. . . . . 700 Psi
Total Steam Temperature. . . . . 825 F




IOWA-ILLINOIS GAS & ELECTRIC CO.
MOLINE, ILLINOIS

TWO SPECIAL INTEGRAL-FURNACE BOILERS

| | |
|---|---|
| Max. Continuous Capacity, Each . . | 100,000 Lb. Steam Per Hr. |
| Design Pressure. . . . . | 900 Psi. |
| Total Steam Temperature. . . . . | 825 F |
| Stoker Fired | |

## TABLE OF CHARACTERISTICS
## TYPICAL CENTRAL-STATION INSTALLATIONS
## BABCOCK & WILCOX BOILERS
### (Since November, 1938)

| Name & Address of Purchaser | Station | No. of Blrs. | Capacity Lb/Hr. Ea. Max.Cont. | Design Press psi. | Total Steam Temp. F (Max. Cont.Cap. | Feed Water Temp.F | Method of Superheat Control | Heat Liberation Btu/CuFt/Hr At Max. Cont. | Btu/Sq Ft/Hr Total Surface To Entrance of S.H. Capacity | Type of Firing | Fuel | Type & Number Pulver-izer Per Blr | Type of Furnace | Econo-mizer | Air Heater | Approx. Date First Unit In Service | Shown on Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **OPEN-PASS BOILERS** | | | | | | | | | | | | | | | | | |
| Buffalo Niagara Electric Corp. Buffalo, N. Y. | Chas. R. Huntley No.2 | 1 | 900,000 | 1500 | 903 | 475 | Attemp-erator | 26,500 | 71,000 | Pulv. Coal D.F. | Bit. Coal High Vol. B | 4 B&W E-56 | Slag-Tap | B&W Cont. Tube | B&W Tubular | Sept. 1942 | 12 |
| Cincinnati Gas & Electric Co. Cincinnati, Ohio | Columbia Park | 2 | 300,000 | 775 | 910 | 350 | By-Pass Dampers | 42,700 | 69,000 | Pulv. Coal D.F. | Bit. Coal High Vol. B Logan Co., W.Va. | 4 B&W E-56 | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | May 1942 | 21 |
| Cleveland Electric Illuminating Co. Cleveland, Ohio | Lakeshore | 2 | 500,000 | 1000 | 910 | 400 | By-Pass Dampers | 22,700 | 62,100 | Pulv. Coal D.F. | Ohio Bit High Vol. C | Roller | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | Sept. 1941 | 20 |
| Consolidated Edison Co. of New York, Inc. New York, N. Y. | Waterside No. 2 | 2 | 615,000 | 1485 | 925 | 386 | By-Pass Dampers | 30,800 | 74,000 | Pulv. Coal D.F. | Bit. Coal Med. Vol. | 2 B&W E-56 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | Sept. 1941 | 16 |
| Consolidated Edison Co. of New York New York, N. Y. | Hell Gate | 2 | 975,000 | 1100 | 950 | 397 | Atemp-erator | 14,580 | 66,200 | Pulv. Coal D.F. | Bit. Coal Med. Vol. | 4 B&W E-56 | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | AA | 17 |
| Illinois Northern Utilities Co. Dixon, Ill. | Dixon | 1 | 500,000 | 1500 | 935 | 455 | By-Pass Dampers | 24,200 | 54,600 | Pulv. Coal D.F. | Bit. Coal Illinois Nat. Gas (U) | 3 B&W E-56 | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | AA | |
| Indiana & Michigan Electric Co. Mishawaka, Indiana | Twin Branch | 1 | 550,000* | 2650 | 940 | 340 | Attemp-erator | - | 49,500 | Pulv. Coal D.F. | Subbit. B Coal Indiana | 4 B&W E-53 | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | March 1941 | 14 |
| Indiana & Michigan Electric Co. Mishawaka, Ind. | Twin Branch | 2 | 450,000 | 1500 | 950 | 420 | Attemp-erator Spray Type | 28,400 | 68,600 | Pulv. Coal D.F. | Bit. Coal High Vol C. Indiana | 3 B&W E-56 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | March 1944 | |
| Jersey Central Power & Light Co. Sayreville, N. J. | Raritan River | 1 | 350,000 | 975 | 900 | 439 | Attem-perator | 27,800 | 63,600 | Pulv. Coal D.F. | East. Bit. High Vol. B | 3 B&W E-32 | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | Aug. 1942 | 25 |
| Ohio Power Co. Philo, Ohio | Philo | 4 | 450,000 | 1500 | 950 | 420 | Attem-perator | 29,200 | 73,500 | Pulv. Coal D.F. | Ohio Bit. High Vol. B | 3 B&W E-56 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | Feb. 1942 | 15 |
| Philadelphia Electric Co. Chester, Pa. | Chester | 2 | 600,000 | 1450 | 935 | 400 | By-Pass Dampers | 27,200 | 75,300 | Pulv. Coal D.F. | Bit. Coal Med. Vol. Cambria, Pa. | 3 B&W E-53 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | Feb. 1941 | 18 |
| Philadelphia Electric Co. Philadelphia, Pa. | Southwark | 4 | 850,000 | 1075 | 900 | 420 | Attem-perator | 25,300 | 64,000 | Pulv. Coal D.F. | Bit. Coal High Vol. A Central, Pa. | 4 B&W E-56 E-53 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | AA | 19 |
| Public Service Co. of Indiana Indianapolis, Ind. | Edwardsport | 1 | 400,000 | 1000 | 910 | 375 | Attem-perator | 27,200 | 60,500 | Pulv. Coal D.F. | Bit. Coal High Vol. C Indiana | 3 B&W E-50 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | July 1944 | 24 |
| Public Service Co. of Northern Illinois Joliet, Ill. | Joliet | 2 | 350,000 | 1500 | 935 | 375 | By-Pass Dampers | C-25,600 G-26,600 | C-55,000 G-50,900 | Pulv. Coal D.F. & Nat. Gas | Bit. Coal High Vol. C. Illinois | Roller | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | Nov. 1941 | 23 |
| Tennessee Valley Authority Spring City, Tenn. | Watts Bar Steam Plant | 4 | 600,000 | 1000 | 900 | 405 | By-Pass Dampers | 27,000 | 77,500 | Pulv. Coal D.F. | Bit. Coal High Vol. A. Tenn. & Ky. | 4 B&W E-56 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | Jan. 1942 | 13 |
| Western United Gas & Electric Co. Aurora, Ill. | Aurora | 1 | 400,000 | 1500 | 910 | 375 | By-Pass Dampers | 25,500 | 53,600 | Pulv. Coal D.F. | Kincaid Ind. Subbit. B Nat. Gas | Tube | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | Dec. 1942 | 22 |
| **RADIANT BOILERS** | | | | | | | | | | | | | | | | | |
| Central New York Power Corp. Oswego, N. Y. | Oswego | 1 Second Boiler | 900,000 | 1500 | 903 | 475 | By-Pass Dampers | 23,000 | 68,600 | Pulv. Coal D.F. | Bit. Coal High Vol. B | 4 B&W E-56 | Two-Stage Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | May 1941 | 30 |
| City Public Service Board San Antonio, Tex. | Station B | 1 | 275,000 | 1500 | 900 | 400 | Attem-perator | 23,600 | 54,800 | Oil & Gas | Cracked Oil Nat. Gas | - | Water Cooled | B&W Cont. Tube | B&W Tubular | March 1945 | 38 |
| Connecticut Power Co. Stamford, Conn. | Stamford | 1 | 250,000-0 275,000-0 | 975 | 915 | 290 | Attem-perator | C-16,350 O-18,050 | C-53,000 | Pulv. Coal D.F. & Oil | W. Va. Bit. Med. Vol. | Impact | Hopper Bottom | B&W Cont. Tube | Regener-ative | Oct. 1941 | 29 |

*-Plus 440,000 lb. Steam per hour from 545 F to 900 F at 435 psi, abs. in reheat section

**-Construction delayed because of war conditions

AA-Under Construction

## TABLE OF CHARACTERISTICS (Cont'd)
## TYPICAL CENTRAL-STATION INSTALLATIONS
## BABCOCK & WILCOX BOILERS
(Since November, 1938)

| Name & Address of Purchaser | Station | No. of Blrs. | Capacity Lb/Hr. Ea. Max.Cont. | Design Press psi. | Total Steam Temp. F (Max. Cont.Cap. | Feed Water Temp.F | Method of Superheat Control | Btu/Sq Ft/Hr Total Surface To Entrance of S.H. Heat Liberation Btu/CuFt/Hr At Max. Cont. | Capacity | Type of Firing | Fuel | Type & Number Pulverizer Per Blr | Type of Furnace | Economizer | Air Heater | Approx. Date First Unit in Service | Shown on Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Consolidated Gas, Elec. Lt. & Pwr Co. Baltimore, Md. | Westport | 1 | 550,000 | 1000 | 915 | 412 | Attem-perator | 23,400 | 59,700 | Pulv. Coal D.F. | Bit. Coal High Vol. B Pa.,W.Va., Md | 3 B&W E-44 | Hopper Bottom | B&W Cont. Tube | Regener-ative | Aug. 1941 | 34 |
| Consolidated Gas, Elec. Lt. & Pwr Co. Baltimore, Md. | Riverside | 2 | 550,000 | 1000 | 915 | 412 | Attem-perator | 23,400 | 59,700 | Pulv. Coal D.F. | Bit. Coal High Vol. B Pa.,W.Va., Md. | 3 B&W E-44 | Hopper Bottom | B&W Cont. Tube | Regener-ative | Mar. 1944 | 34 |
| Deepwater Operating Co. Penns Grove, N. J. | Deepwater | 1 | 550,000 | 1475 | 755 | 382 | By-Pass Dampers | 13,300 | 49,500 | Pulv. Coal D.F. | Bit. Coal Med. Vol. W. Va. | 4 B&W E-38 | Hopper Bottom | B&W Cont. Tube | Regener-ative | Jan. 1942 | 27 |
| Georgia Power Co. Atlanta, Ga | Arkwright | 1 | 400,000 | 950 | 850 | 365 | By-Pass Dampers | 22,800 | 57,000 | Pulv. Coal D.F. | Bit. Coal High Vol. B | 3 B&W E-53 | Hopper Bottom | B&W Cont. Tube | B&W Tubular | Sept. 1943 | 35 |
| Hawaiian Electric Co. Honolulu, T. H. | | 1 | 390,000 | 800 | 905 | 382 | Attem-perator | 38,000 | 76,500 | Oil | | - | Water-Cooled | B&W Cont. Tube | B&W Tubular | Oct. 1943 | 39 |
| Long Island Lighting Co. Glenwood Landing, L.I., N. Y. | Glenwood Landing | 1 | 500,000 | 525 | 800 | 225 | Attem-perator | 15,800 | - | Pulv. Coal (Bin Syst.) & Oil | Bit. Coal Low Vol. | - | Hopper Bottom | B&W Cont. Tube | B&W Tubular | June 1942 | 28 |
| Northern States Power Co. St. Paul, Minn. | High Bridge | 2 | 450,000 | 1000 | 900 | 350 | Attem-perator | C-15,700 | C-44,600 | Pulv. Coal Oil & Gas | Ill. Bit. Coal High Vol. C Oil & Gas | Tube | Hopper Bottom | B&W Cont. Tube | B&W Tubular | Feb. 1942 | 37 |
| Ohio Edison Co. Akron, Ohio | Gorge | 1 | 450,000 | 900 | 875 | 370 | By-Pass Dampers | 26,200 | 65,100 | Pulv. Coal D.F. | Bit. Coal High Vol C Ohio | 3 B&W E-50 | Hopper Bottom | B&W Cont. Tube | B&W Tubular | July 1943 | 33 |
| Ohio Edison Co. Toronto, Ohio | Toronto | 1 | 400,000 | 900 | 900 | 300 | By-Pass Dampers | 31,600 | 74,600 | Pulv. Coal D.F. | Bit. Coal High Vol. C Belmont, Ohio | 3 B&W E-50 | Slag-Tap | B&W Cont. Tube | B&W Tubular | Oct. 1940 | 32 |
| Pacific Gas & Electric Co. Button Willow, Calif. | Midway | 2 | 450,000 | 1500 | 915 | 390 | By-Pass Dampers | 38,100 | 91,500 | Oil & Gas | Bunker C Oil & Nat. Gas | - | Water Cooled | B&W Cont. Tube | B&W Tubular | ** | |
| Pacific Gas & Electric Co. Oleum, Calif | Oleum | 3 | 200,000 | 1525 | 950 | 400 | By-Pass Dampers | 30,100 | - | Oil & Gas | Bunker C Oil & Nat. Gas | - | Water Cooled | B&W Cont. Tube | B&W Tubular | May 1943 | 40 |
| Pacific Gas & Electric Co. San Francisco, Calif. | Sta. P | 2 | 450,000 | 1500 | 915 | 390 | By-Pass Dampers | 38,100 | 91,500 | Oil & Gas | Bunker C Oil & Nat. Gas | - | Water Cooled | B&W Cont. Tube | B&W Tubular | ** | |
| Public Service Electric and Gas Co. Burlington, N. J. | Burlington | 4 | 550,000 | 1475 | 950 | 445 | By-Pass Dampers | 27,300 | 83,900 | Pulv. Coal D.F. & Oil | Bit. Coal Med. Vol. | Tube | Two-Stage Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | Oct. 1940 | 31 |
| Public Service Electric and Gas Co. Jersey City, N. J. | Marion | 2 | 550,000 | 1475 | 950 | 455 | By-Pass Dampers | 27,300 | 83,900 | Pulv. Coal D.F. & Oil | Bit. Coal Med. Vol. Bunker C Oil | Tube | Two-Stage Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | June 1941 | 31 |
| West Penn Power Co. Springdale, Penna. | Springdale | 1 | 800,000 | 1550 | 925 | 430 | Attem-perator | 15,400 | 63,900 | Pulv. Coal D.F. | Bit. Coal High Vol. | E-56 | Hopper Bottom | B&W Cont. Tube | B&W Tubular | AA | 26 |
| Wisconsin Public Service Co. Green Bay, Wisc. | Bayside | 1 | 312,500 | 775 | 900 | 370 | Attem-perator | 20,700 | 49,300 | Pulv. Coal D.F. | Illinois Bit. Coal | 2 Ball | Hopper Bottom | B&W Cont. Tube | Regener-ative | Jan. 1943 | 36 |
| **HIGH-HEAD BOILERS** | | | | | | | | | | | | | | | | | |
| Commonwealth Edison Co. Chicago, Ill. | Fisk | 2 | 750,000 | 1450 | 935 | 350 | Attem-perator | 18,020 | 60,500 | Pulv. Coal D.F. | Subbit.Coal Kincaid, Ill. | Roller | Cont. Slag-Tap | B&W Cont. Tube | B&W Tubular | Sept. 1942 | 41 |
| Dayton Power & Light Co. Dayton, Ohio | Millers Ford | 2 | 375,000 | 1375 | 900 | 385 | By-Pass Dampers | 39,200 | 81,500 | Pulv. Coal D.F. | Bit. Coal High Vol. B W. Va. | 3 B&W B-156 | Hopper Bottom | B&W Cont. Tube | B&W Tubular | Sept. 1940 | |
| Hartford Electric Light Co. Hartford, Conn. | South Meadow | 1 | 450,000 | 975 | 915 | 385 | By-Pass Dampers | 28,600 | - | Pulv. Coal & Oil | Bit. Coal Med. Vol. | Impact Mills | Hopper Bottom | B&W Cont. Tube | Regener-ative | Dec. 1942 | |
| Lansing, Mich., City of | Ottawa | 1 | 275,000 | 950 | 900 | 439 | Attem-perator | 20,500 | 64,800 | Pulv. Coal D.F. | Bit. Coal High Vol. C | 3 B&W E-41 | Cont. Slag-Tap | B&W Cont. Tube | Regener-ative | AA | 42 |
| **CROSS-DRUM BOILERS** | | | | | | | | | | | | | | | | | |
| United Illuminating Co. New Haven, Conn. | English | 2 | 88,800 | 400 | 622 | 212 | None | 31,000 | - | Under feed Stoker | Bit. Coal Med. Vol. | - | Refrac-tory | None | None | Jan. 1941 | |
| **STIRLING BOILERS** | | | | | | | | | | | | | | | | | |
| Anderson, Ind., City of | | 1 | 125,000 | 450 | 725 | 300 | None | 32,200 | 43,400 | Chain Grate Stoker | Bit. Coal High Vol.C | - | Water Cooled | B&W Loop Tube | None | Aug. 1943 | |

| Name & Address of Purchaser | Station | No. of Blrs. | Capacity Lb/Hr. Ea. Max.Cont. | Design Press psi. | Total Steam Temp. F (Max. Cont.Cap. | Feed Water Temp.F | Method of Superheat Control | Btu/Sq Ft/Hr Heat Liberation Btu/CuFt/Hr At Max. Cont. | Btu/Sq Ft/Hr Total Surface To Entrance of S.H. Capacity | Type of Firing | Fuel | Type & Number Pulver-izer Per Blr | Type of Furnace | Econo-mizer | Air Heater | Approx. Date First Unit in Service | Shown on Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Public Service Board San Antonio, Texas | Comal | 1 | 375,000 | 500 | 725 | 364 | Attem-perator | 25,200 | 52,700 | Gas & Oil | Future Nat.Gas & Oil Pulv. Lignite | - | Water Cooled | None | B&W Tubular | June 1943 | 43 |
| Detroit Edison Co. Detroit, Mich. | Delray Power House No. 3 | 4 | 424,000 | 950 | 910 | 375 | By-Pass Dampers | 16,300 | 59,200 | Under feed Stoker | Bit. Coal High Vol. B Aux. Gas | - | Water Cooled | B&W Cont. Tube | B&W Tubular | July 1940 | |
| Dover, Ohio, City of | | 1 | 55,000 | 425 | 750 | 212 | None | 33,700 | - | Under feed Stoker | Bit. Coal High Vol. C | - | Water Cooled | None | None | Feb. 1944 | |
| Duquesne Light Co. Pittsburgh, Pa. | James H. Reed | 1 | 350,000 | 475 | 760 | 280 | Attem-perator | 26,200 | 49,500 | Under feed Stoker | Bit. Coal High Vol. C | - | Water Cooled | B&W Cont. Tube | B&W Tubular | June 1941 | |
| Dyersburgh, Tenn. Municipal Water & Light Plant | | 1 | 90,000 | 450 | 700 | 212 | None | 40,300 | 48,800 | Under feed Stoker | Bit. Coal High Vol. C Western Ky. | - | Water Cooled | None | None | Oct. 1939 | |
| Eastern Shore Public Service Co. of Md. Vienna, Md. | Vienna | 1 | 80,000 | 725 | 825 | 340 | None | 24,800 | - | Under feed Stoker | Bit. Coal Low Vol. W. Va. | - | Water Cooled | B&W Cont. Tube | None | April 1945 | |
| Fort Wayne, Ind. Municipal Light & Power Plant | | 2 | 125,000 | 425 | 700 | 325 | None | 29,400 | 47,300 | Under feed Stoker | Bit. Coal High Vol. B W. Va. | - | Water Cooled | B&W Loop Tube | B&W Tubular | Dec. 1939 | 46 |
| Galion, Ohio Municipal Power & Light Plant | | 1 | 48,800 | 650 | 590 | 250 | None | 29,350 | 45,300 | Under feed Stoker | Bit. Coal High Vol. B | - | Water Cooled | None | None | Sept. 1941 | |
| Gulf States Utilities Baton Rouge, La. | Louisiana | 1 | 250,000 | 700 | 750 | 350 | By-Pass Dampers | 25,600 | - | Gas & Oil | Nat. Gas & Oil | - | Water Cooled | None | Regener-ative | Sept. 1943 | |
| Indianapolis Power & Light Co. Indianapolis, Ind. | C.C. Perry | 1 | 300,000 | 325 | 600 | 216 | Attem-perator | 13,300 | 40,600 | Pulv. Coal D.F. | Bit. Coal | 3 B&W E-44 | Hopper Bottom | - | Regener-ative | AA | |
| Iowa Public Service Co. Charles City, Iowa | Charles City | 1 | 50,000 | 450 | 700 | 220 | None | 25,000 | - | Spreader Stoker | Bit. Coal High Vol. C | - | Water Cooled | B&W Loop Tube | None | Aug. 1942 | 47 |
| Kansas City, Kans., City of | Quindaro | 1 | 150,000 | 450 | 750 | 225 | None | 18,500 | 35,000 | Pulv. Coal D.F. | Bit. Coal High Vol. C | 2 B&W E-38 | Slag-Tap | B&W Loop Tube | Plate | Oct. 1943 | |
| Laclede Power & Light Co. St. Louis, Mo. | Mound St. | 1 | 200,000 | 500 | 770 | 225 | None | 28,600 | 51,100 | Pulv. Coal Nat. Gas & Oil | Nat. Gas Oil Fut.P.C. | 2 B&W E-47 | Slag-Tap | None | Regener-ative | ** | |
| Lynn Gas & Electric Co. Lynn, Mass. | | 1 | 210,000 | 500 | 805 | 290 | Attem-perator | 23,100 | - | Pulv. Coal D.F. & Oil (U) | Bit. Coal High Vol. B W. Va. | Impact | Hopper Bottom | None | Regener-ative | June 1943 | |
| Marion Reserve Power Co. Marion, Ohio | Scioto | 1 | 150,000 | 925 | 835 | 360 | By-Pass Dampers | 30,700 | 39,300 | Under feed Stoker | Bit. Coal High Vol. B | - | Water Cooled | B&W Cont. Tube | None | Mar. 1941 | |
| Missouri Public Service Corp. Warrensburg, Mo. | Clinton | 1 | 100,000 | 500 | 550 | 250 | None | 28,200 | - | Spreader Stoker | Bit. Coal High Vol. Mo. | - | Water Cooled | B&W Cont. Tube | None | AA | |
| Monroe, La., City of | | 1 | 80,000 | 450 | 750 | 225 | None | 29,100 | - | Oil & Gas | Oil & Nat. Gas | - | Water Cooled | None | B&W Tubular | AA | |
| Montana-Dakota Utilities Co. Minneapolis, Minn. | Glendive, Mont. | 1 | 55,000 | 300 | 535 | 212 | None | 19,500 | - | Gas | Nat. Gas | - | Air-Cooled Refrac-tory | B&W Cont. Tube | None | May 1941 | |
| New Bedford Gas & Edison Light Co. New Bedford, Mass. | Cannon Street | 2 | 150,000 | 925 | 825 | 214 | None | 28,600 | - | Under-feed Stoker | Bit. Coal | - | Water Cooled | B&W Cont. Tube | None | July 1942 | |
| New Orleans Public Service Co. New Orleans, La. | Market Street | 1 | 385,000 | 950 | 905 | 350 | By-Pass Dampers | 27,700 | 71,400 | Oil & Gas | Oil & Gas | - | Hopper Bottom | B&W Cont Tube | Regener-ative | Sept. 1943 | |
| Ohio Public Service Co. Warren, Ohio | Mahoningside | 1 | 350,000 | 900 | 825 | 375 | Special Baffles | 24,800 | 56,100 | Pulv. Coal D.F. | Bit. Coal High Vol. C Belmont, Ohio Oil | 3 B&W B-150 | Two-Stage Slag-Drip | None | B&W Tubular | July 1941 | 44 |
| Ohio Public Service Co. Warren, Ohio | Mahoningside | 2 | 100,000 | 250 | 528 | 210 | None | 43,800 | - | Under-feed Stoker | Bit. Coal High Vol. C | - | Water Cooled | None | B&W Tubular | Feb. 1940 | |
| Ohio Public Service Co. Dilles Bottom, Ohio | R.E. Burger | 4 | 350,000 | 925 | 900 | 375 | Special Baffles | 25,400 | 54,200 | Pulv. Coal D.F. | Bit. Coal High Vol. C. Ohio | 3 B&W E-50 | Hopper Bottom | None | B&W Tubular | Jan. 1944 | 45 |

**-Construction delayed because of war condition

AA-Under Construction

## TABLE OF CHARACTERISTICS (Cont'd)
## TYPICAL CENTRAL-STATION INSTALLATIONS
## BABCOCK & WILCOX BOILERS
## (Since November, 1938)

| Name & Address of Purchaser | Station | No. of Blrs. | Capacity Lb/Hr. Ea. Max.Cont. | Design Press psi. | Total Steam Temp. F (Max. Cont.Cap. | Feed Water Temp.F | Method of Superheat Control | Heat Liberation Btu/CuFt/Hr At Max. Cont. | Btu/Sq Ft/Hr Total Surface To Entrance of S.H. Capacity | Type of Firing | Fuel | Type & Number Pulver-izer Per Blr | Type of Furnace | Econo-mizer | Air Heater | Approx. Date First Unit in Ser-vice | Shown on Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Owatonna, Minn. Municipal Power Plant | | 1 | 80,000 | 450 | 600 | 212 | None | 24,500 | – | Gas | Nat. Gas | – | Refrac-tory | None | B&W Tubular | Sept. 1941 | |
| Owensboro, Ky., City of Municipal Power Plant | | 2 | 80,000 | 475 | 740 | 212 | None | 16,800 | 26,400 | Pulv. Coal D.F. | Bit. Coal High Vol. C Kentucky | 2 B&W E-29 | Hopper Bottom | None | None | July 1940 | |
| Pennsylvania Electric Co. Seward, Pa. | Seward | 1 | 200,000 | 725 | 825 | 212 | None | 30,300 | – | Under-feed Stoker | Bit. Coal Med. Vol. | – | Water Cooled | B&W Loop Tube | None | Sept. 1943 | |
| Piqua, Ohio, City of Municipal Power Plant | | 1 | 50,000 | 450 | 750 | 225 | None | 29,300 | 44,100 | Under-feed Stoker | Bit. Coal High Vol. C Jackson, Ohio | – | Water Cooled | None | B&W Tubular | June 1940 | |
| Public Service Co. of Colorado Denver, Colo. | Valmont | 2 | 300,000 | 450 | 750 | 280 | Special Baffles | 30,800 Coal | 46,650 Coal | Pulv. Coal Nat.Gas & Oil | Colo. Lignite Cl. IV, Gr.I Nat.Gas & Oil | Bin System | Inter Slag-Tap | None | B&W Tubular | Sept. 1941 | |
| Public Service Co. of Oklahoma Tulsa, Okla | Tulsa | 1 | 125,000 | 300 | 650 | 220 | None | 32,200 | – | Spreader Stoker | Bit. Coal High. Vol.C Okla. | None | Water Cooled | B&W Cont. Tube | None | Sept. 1945 | |
| Toledo Edison Co. Toledo, Ohio | Acme | 2 | 350,000 | 900 | 825 | 375 | Special Baffles | 24,300 | 56,100 | Pulv. Coal D.F. | Bit. Coal High Vol. C Ohio | 3 B&W E-50 | Two-Stage Slag-Drip | None | B&W Tubular | Sept. 1941 | |
| Vineland, N. J. Borough Electric Plant | | 1 | 72,500 | 450 | 750 | 300 | None | 34,000 | 48,300 | Under-feed Stoker | Bit. Coal Low Vol. Cambria, Pa. | – | Water Cooled | None | B&W Tubular | June 1939 | |
| **INTEGRAL-FURNACE BOILERS** | | | | | | | | | | | | | | | | | |
| Albuquerque Gas & Electric Co. Albuquerque, N. Mex. | | 1 | 92,000 | 900 | I-550 U-825 | I-204 U-350 | None | 44,850 | – | Gas & Oil | Nat. Gas & Oil | – | Water Cooled | None | B&W Tubular | AA | |
| Burbank, Calif., City of | | 3 | 120,000 | 700 | 825 | 375 | By-Pass Dampers | 34,200 (Oil) | 74,000 (Oil) | Oil & Gas | Bunker C Oil Nat. Gas | – | Water Cooled | None | B&W Tubular | Aug. 1941 | 51 |
| Central Illinois Electric & Gas Co. Rockford, Ill. | Rockford | 1 | 175,000 | 725 | 750 | 325 | Attem-perator | 47,000 | 52,800 | Pulv. Coal D.F. | Subbit.B Coal Fulton Co., Ill. | 2 B&W E-41 | Two-Stage Slag-Tap | None | Regener-ative | Aug. 1940 | |
| Central Maine Power Co. Bucksport, Maine | Bucksport | 1 | 150,000 | 475 | 750 | 300 | None | 30,100 | 49,800 | Oil | Bunker C Oil | – | Water Cooled | None | B&W Tubular | Aug. 1940 | |
| Central Maine Power Co. Wiscasset, Maine | Wiscasset Steam Plant | 2 | 125,000 | 675 | 760 | 300 | None | 31,800 | 66,000 | Oil Future P.C. | Oil | 2 B&W E-23 | Water Cooled | None | B&W Tubular | Dec. 1941 | |
| Central Power & Light Co. Corpus Christi, Texas | Nueces Bay | 2 | 175 000 | 450 | 835 | 370 | Attem-perator | O-29,700 G-30,600 | – | Oil & Gas | Bunker C Oil Nat. Gas | – | Water Cooled | None | B&W Tubular | Mar. 1942 | |
| Chanute, Kansas, City of | | 1 | 50,000 | 500 | 775 | 212 | None | 35,000 | – | Gas | Nat. Gas | – | Water Cooled | None | B&W Tubular | Apr. 1942 | |
| Colorado Springs, Colo., City of | | 1 | 100,000 | 450 | 700 | 210 | None | 29,000 | – | Gas & Oil | Gas & Oil | – | Water Cooled | None | B&W Tubular | Nov. 1942 | |
| Community Public Service Co. Lordsburg, New Mex. | Lordsburg | 1 | 65,000 | 500 | 740 | 280 | None | 41,600 | – | Oil & Gas | Bunker C Oil Nat. Gas | – | Water Cooled | None | B&W Tubular | Sept. 1939 | |
| County of Greenwood Chappelle, S. C. | Buzzard Roost | 1 | 80,000 | 450 | 725 | 300 | None | 21,170 | – | Pulv. Coal D.F. | Bit. Coal High Vol. A | 2 B&W E-21 | Water Cooled & Block Floor | B&W Cont. Tube | B&W Tubular | Sept. 1940 | |
| Dallas Power & Light Co. Dallas, Tex. | Mountain Creek | 1 | 300,000 | 800 | 830 | 375 | None | 33,700 | – | Nat. Gas & Oil | Nat. Gas & Oil | – | Water Cooled | B&W Cont. Tube | Regener-ative | AA | |
| Florida Power & Light Co. Sarasota, Fla. | Sarasota | 1 | 200,000 | 1000 | 905 | 350 | Attem-perator | 27,750 | – | Oil Future P.C. | Oil | – | Water Cooled | – | Regener-ative | AA | |
| Florida Power Corp. St. Petersburg, Fla. | Bayboro | 2 | 175,000 | 950 | 910 | 372 | Attem-perator | 34,700 | 61,500 | Oil Future P.C. | Bunker C Oil | – | Water Cooled | None | B&W Tubular | July 1941 | |
| General Public Utilities, Inc. Pluma, S. D. | Pluma | 1 | 50,000 | 475 | 750 | 337 | None | 36,000 | 50,600 | Oil & Gas | Nat. Gas | – | Water Cooled | None | B&W Tubular | Sept. 1939 | |
| General Public Utilities, Inc. Rapid City, S.D. | Rapid City | 1 | 45,000 | 475 | 750 | 316 | None | 27,400 | 40,400 | Oil & Gas | Nat. Gas | – | Water Cooled | None | B&W Tubular | Nov. 1940 | |
| Gulf Public Service Co. Jacksonville, Tex. | Jacksonville Texas | 1 | 50,000 | 475 | 750 | 316 | None | 30,200 | 48,900 | Oil & Gas | Nat. Gas | – | Water Cooled | None | B&W Tubular | Aug. 1940 | |
| Hawaiian Electric Co. Honolulu, T. H. | | 1 | 180,000 | 700 | 825 | 372 | None | 29,400 | 69,500 | Oil | Bunker C Oil | – | Water Cooled | None | B&W Tubular | Oct. 1943 | |
| Hilo Electric Light Co., Ltd. Hilo, Hawaii, T.H. | Hilo | 1 | 56,000 | 475 | 725 | 300 | Attem-perator | 40,200 | – | Oil | Oil | – | Water Cooled | None | B&W Tubular | Dec. 1943 | |
| Interstate Power Co. Dubuque, Iowa | Beaver Channel | 1 | 175,000 | 725 | 835 | 388 | Attem-perator | C-17,600 | – | Pulv. Coal & Oil | Bunker C Coal & Oil | 2 B&W E-47 | Hopper Bottom | None | B&W Tubular | A | 49 |
| Iowa Illinois Gas & Electric Co. Iowa City, Iowa | Coralville | 1 | 60,000 | 500 | 740 | 212 | By-Pass Dampers | 22,500 | 43,500 | Stoker & Gas | Subbit.B Coal Illinois | – | Water Cooled | B&W Cont Tube | None | Aug. 1940 | |

| Name & Address of Purchaser | Station | No. of Blrs. | Capacity Lb/Hr. Ea. Max.Cont. | Design Press psi. | Total Steam Temp. F (Max. Cont.Cap. | Feed Water Temp.F | Method of Superheat Control | Heat Liberation Btu/CuFt/Hr At Max. Cont. | Btu/Sq Ft/Hr Total Surface To Entrance of S.H. Capacity | Type of Firing | Fuel | Type & Number Pulverizer Per Blr | Type of Furnace | Econo-mizer | Air Heater | Approx. Date First Unit in Service | Shown on Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iowa-Illinois Gas & Electric Co. Moline, Ill. | Moline | 3 | 100,000 | 900 | 825 | 260 | By-Pass Dampers & Attem's | 26,200 | 55,700 | Stoker | Subbit.B Coal Illinois & Nat.Gas | – – | Water Cooled | B&W Cont. Tube | Regener-ative | Apr. 1941 | 52 |
| Kentucky Utilities Co. Tyrone, Ky. | Tyrone | 2 | 150,000 | 1000 | 910 | 400 | Attem-perator | 19,950 | - | Pulv. Coal D.F. | Bit. Coal High Vol. A | 2 B&W E-41 | Hopper Bottom | | B&W Tubular | A | |
| Lakeland, Fla., City of | | 1 | 65,000 | 525 | U-750 | 220 | None | 33,900 | 39,100 | Oil Future P.C. | Bunker C Oil | – | Water Cooled | None | B&W Tubular | Oct. 1941 | |
| Martins Ferry, Ohio, City of | | 2 | 50,000 | 450 | 750 | 225 | None | 27,200 | – | Pulv. Coal D.F. | Bit. Coal High Vol. C | 2 B&W E-26 | Water Cooled | None | Steam Coil | Oct. 1942 | |
| Newport Electric Corp. Newport, R. I. | West Howard St. | 1 | 70,000 | 500 | 750 | 270 | None | 37,100 | – | Oil Future P. C. | Pulv. Coal & Oil | – | Water Cooled | None | B&W Tubular | Nov. 1941 | |
| Pacific Gas & Electric Co. San Francisco, Calif. | B Eureka | 1 | 75,000 | 675 | 750 | 212 | None | 25,900 | – | Oil & Wood | Oil & Wood | – | Water Cooled | None | B&W Tubular | Oct. 1941 | |
| St. Joseph Railway, Light, Heat, & Power Co. St. Joseph, Mo. | | 1 | 150,000 | 900 | 825 | 350 | None | 40,700 | – | Gas & Oil | Nat. Gas & Oil | – | Water Cooled | None | B&W Tubular | ** | |
| San Diego Gas & Electric Co. San Diego, Calif. | B | 1 | 200,000 | 275 | 728 | 300 | None | G-33,100 O-31,700 | – | Oil & Gas | Oil & Nat. Gas | – | Water Cooled | None | B&W Tubular | Oct. 1941 | |
| San Diego Gas & Electric Co. San Diego, Calif. | Silver Gate | 2 | 200,000 | 950 | 900 | 400 | Attem-perator | G-34,800 | G-108,200 | Nat. Gas & Oil | Nat. Gas. | – | Water Cooled | None | B&W Tubular | Mar. 1943 | |
| Savannah Electric & Power Co. Savannah, Ga. | Riverside Power Station | 1 | 100,000 | 425 | 730 | 300 | None | 25,400 | 21,600 | I-Oil U-P.C. | Bunker C Oil Bit. Coal High Vol. B | | Water Cooled | None | Regener-ative | Aug. 1940 | |
| Southwestern Electric Co. Cape Girardeau, Mo. | Cape Girardeau | 2 | 50,000 | 450 | 750 | 325 | None | 24,790 | 34,600 | Pulv. Coal D.F. & Oil | Bit. Coal High Vol. C Henderson Co. Ky. | 1 B&W E-21 | Water Cooled & Block Floor | None | B&W Tubular | Nov. 1939 | |
| Southwestern Electric Co. Tuco, Texas | Tuco | 1 | 75,000 | 300 | 715 | 210 | None | 0-36,200 G-38,000 | 31,600 Oil & Gas | Oil & Gas | Bunker C Oil Nat. Gas | – | Water Cooled | None | Regener-ative | Nov. 1940 | |
| Southwestern Public Service Co. Roswell, N. Mex. | Roswell | 1 | 60,000 | 475 | 750 | 337 | None | 34,900 | 50,600 | Oil & Gas | Nat. Gas | – | Water Cooled | None | B&W Tubular | Sept. 1939 | |
| Southwestern Public Service Co. Carlsbad, N. Mex. | Carlsbad | 1 | 80,000 | 700 | 825 | 375 | None | 32,000 | 50,000 | Nat. Gas | Nat. Gas | – | Water Cooled | None | Regener-ative | AA | |
| Tampa Electric Co. Tampa, Fla. | W. Jackson Street | 1 | 160,000 | 950 | 830 | 380 | Attem-perator | 29,450 | – | Oil Future P.C. | Oil | – | Water Cooled | None | Regener-ative | June 1945 | |
| Toledo Edison Co. Toledo, Ohio | Water Street | 2 | 150,000 | 900 | 850 | 350 | None | 42,000 | 72,700 | Oil | Oil | – | Water Cooled | None | None | Nov. 1942 | |
| United Illuminating Co. Bridgeport, Conn. | Steel Point | 2 | 150,000 | 725 | 860 | 402 | None | 24,300 | – | Pulv. Coal D.F. & Oil | Bit. Coal Low Vol. Bunker C Oil | Impact | 1/2 Hopper Bottom | None | B&W Tubular | Oct. 1941 | |
| United Illuminating Co. Bridgeport, Conn. | Steel Point | 2 | 120,000 | 725 | 850 | 423 | None | 22,100 | – | Pulv. Coal D.F. & Oil | Bit. Coal Low Vol. Cambria, Pa. | Impact | Hopper Bottom | None | B&W Tubular | Sept. 1943 | |
| Virginia Public Service Co. Hampton, Va. | Hampton | 1 | 200,000 | 1000 | 830 | 387 | Attem-perator | 24,200 | 42,700 | Pulv. Coal D.F. | Bit. Coal Med. Vol. W. Va. | 2 B&W E-41 | Hopper Bottom | None | B&W Tubular | Jan. 1944 | 50 |
| Wisconsin Power & Light Co. Madison, Wisc. | Beloit | 1 | 275,000 | 1000 | 910 | 416 | Attem-perator | 15,800 | 49,000 | Pulv. Coal D.F. | Bit. Coal Illinois | 2 B&W E-50 | Hopper Bottom | B&W Cont Tube | B&W Tubular | A | 48 |

*–Plus 440,000 lb. Steam per hour from 545 F to 900 F at 435 psi. abs. in reheat section

**–Construction delayed because of war conditions

AA–Under Construction

# NOTES

# Products of
# THE BABCOCK & WILCOX COMPANY
## AND SUBSIDIARIES

B&W Water-Tube Boilers
Stirling Water-Tube Boilers
Type H Stirling Water-Tube Boilers
Integral-Furnace Boilers
Waste-Heat Boilers
B&W Marine Water-Tube Boilers
B&W Express-Type Marine Boilers

Bailey Water-Cooled Furnaces

Superheaters
Desuperheaters
Economizers
Air Heaters

Pulverized-Coal Equipment
Chain-Grate Stokers
Oil Burners
Gas Burners
Multifuel Burners

Stacks and Breechings

Seamless and Welded Steel Tubes and Pipe
Seamless Alloy Tubes and Pipe

Seamless Toncan Iron Tubes
Alloy Pipe Fittings

Refractories
- B&W 80 Firebrick
- B&W Junior Firebrick
- B&W Insulating Firebrick
- B&W Refractory Mortars and Plastics

Process Equipment
- Pressure Vessels
- Tubular Products
- Alloy Castings

B&W-Tomlinson
- Recovery Process

Pulverizers for Cement Materials, Rock Products, and Ores

Alloy Castings

Elverite Castings
Adamantine Castings

### BRANCH OFFICES AND REPRESENTATIVES

ATLANTA 3, GA. . . . . Candler Building
BOSTON 10, MASS. . . . . 49 Federal Street
CHICAGO 3, ILL. . . . . Marquette Building
CINCINNATI 2, OHIO . . . . . Carew Tower
CLEVELAND 14, OHIO . . . . . Guardian Building
DALLAS 1, TEXAS . . . . . Magnolia Building
DENVER 2, COLO. . . . . 1720 California Street
DETROIT 26, MICH. . . . . Ford Building
GALVESTON, TEXAS . . . . . Guaranty Building
HOUSTON 2, TEXAS . . . . . Electric Building
LOS ANGELES 13, CALIF. . . . . Richfield Building
NEW ORLEANS 7, LA. . . . . Whitney Bank Building
NEW YORK 6, N. Y. . . . . 85 Liberty Street
PHILADELPHIA 2, PA. . . . . Packard Building
PHOENIX 1, ARIZONA . . . . . P. O. Box 271
PITTSBURGH 19, PA. . . . . Koppers Building
PORTLAND 4, ORE. . . . . Failing Building
ST. LOUIS 3, MO. . . . . Shell Building
SALT LAKE CITY 1, UTAH . . . . . Kearns Building
SAN FRANCISCO 5, CALIF. . . . . 450 Mission Street
SEATTLE 4, WASH. . . . . Smith Tower
SYRACUSE 2, N. Y. . . . . State Tower Building
WASHINGTON 5, D. C. . . . . 601 - 13th St., N. W.
SANTURCE, PUERTO RICO . . 267 Fernandez Juncos Ave.
HAVANA, CUBA . . . . . Edificio Gomez Mena Obispo Esquina Aguiar
HONOLULU . . . . . Castle & Cooke Building

**THE BABCOCK & WILCOX COMPANY**
**85 LIBERTY STREET ★ NEW YORK 6, N. Y.**